

Permit No.	Date	Document ID No.
34-AA	June 23, 2009	7700

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Solid Waste Section

Asheville Regional Office

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May 07, 2009

Division of Air Quality

Mooresville Regional Office

**Land Clearing and Inert Debris Landfill
Operation Plan
Piney Hill Acres
2081 Piney Grove Road
Kernersville, North Carolina
Kleinfelder Project No. 103374**

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ONLY THE CLIENT OR ITS DESIGNATED REPRESENTATIVES MAY USE THIS DOCUMENT AND ONLY FOR THE SPECIFIC PROJECT FOR WHICH THIS REPORT WAS PREPARED.



May 5, 2009

Mr. John Murray, P.E.
NCDENR
DWM – Solid Waste Section
Mooresville Regional Office
610 East Center Avenue | Suite 301
Mooresville, North Carolina 28115

RE: Piney Hill Acres LCID Landfill Operation Plan
2081 Piney Grove Road
Kernersville, North Carolina
NC Solid Waste Permit No. 34-AA
Kleinfelder Project No. 103374

Dear Mr. Murray:

Kleinfelder is submitting an updated Operation Plan and figures for the referenced land clearing and inert debris landfill for the purpose of requesting a modification of the existing solid waste permit. The modifications include the proposed limits of the area for disposal. The zoning at the property was recently changed to Light Industrial-Special Use. LCID recycling activities may be conducted at the site in the future. These activities are described in the Operation Plan.

Should you have any questions or require clarification, please contact Chris Hay at 336.668.0093 or chay@kleinfelder.com.

Very truly yours,

KLEINFELDER

A handwritten signature in black ink, appearing to read "Gail Licayan".

Gail G. Licayan, P.E.
Project Professional

A handwritten signature in black ink, appearing to read "Chris Hay".

Christopher W. Hay, E.I.
Environmental Group Manager

GGL/CWH:cas

Cc: David Lawson

Enclosure: Operation Plan

OPERATION PLAN

**PINEY HILL ACRES
2081 PINEY GROVE ROAD
KERNERSVILLE, NORTH CAROLINA**

Prepared for:

**David L. Lawson, LLC
Piney Hill Acres**



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A	Zoning Classification and Special Use District Permit
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1.0 GENERAL FACILITY OPERATIONS

1.1 OVERVIEW

This Operation Plan was prepared for operations of the Piney Hill Acres facility (Permit No. 34-AA) located at 2081 Piney Grove Road in Kernersville, North Carolina. This document discusses the operation of the land clearing and inert debris landfill and other solid waste management activities. The zoning at the property was recently changed to Light Industrial – Special Use. A copy of a letter confirming the change to the zoning classification and Special Use District Permit are included in Appendix A. LCID recycling activities may be conducted at the facility in the future. Refer to the attached site plans for the general layout of the facility.

1.2 CONTACT INFORMATION

The individual responsible for operation and maintenance of the facility will be the property owner:

Mr. David Lee Lawson
2081 Piney Grove Road
Kernersville, North Carolina 27284
Phone: 336.996.6747

1.3 ACCESS AND SECURITY REQUIREMENTS

Access to the site is limited by a locking gate. During daytime hours, an official from the LCID landfill will be on duty to prevent dumping of unauthorized waste. During nighttime hours, access to the site is restricted by a locked gate and fence along the front of the property facing southeast. The entrance road to the landfill will be of all weather construction and maintained in good condition.

1.4 SIGN REQUIREMENTS

A sign is posted at the facility entrance indicating the site contact and phone number in case of an emergency and landfill permit number.

1.5 SAFETY REQUIREMENTS

Open burning of solid waste will not be permitted. The Piney Grove Fire Department is located two miles south of the landfill. Fire Chief Bork and other personnel from the fire department have visited the landfill to conduct a fire protection assessment.

Arrangements have been made with the local fire protection agency to immediately provide fire-fighting services when needed. A fire that occurs will be reported to the DSWM with 24 hours and a written notification shall be submitted within 15 days. Removal of solid waste shall not occur unless the owner/operator approves and the removal is not performed on the working face.

2.0 EROSION AND SEDIMENTATION CONTROL

Erosion controls (sediment traps) have been designed which will minimize sediment leaving the site and to limit excessive onsite erosion. Details of the sediment trap design and construction are shown on Figures 2 and 7. These erosion controls have previously been approved in prior submittals.

2.1 SEDIMENT TRAP CONSTRUCTION SPECIFICATIONS

1. Clear, grub, and strip the area under the embankment of all vegetation and root mat. Remove all surface soil containing high amounts of organic matter and stockpile or dispose of it properly. Haul all objectionable material to the designated disposal area.
2. Ensure that fill material for the embankment is free of roots, woody vegetation, organic matter, and other objectionable material. Place the fill in lifts not to exceed 8 inches and machine compact it. Over fill the embankment 6 inches to allow for settlement.
3. Construct the outlet section in the embankment. Protect the connection between the riprap and the soil by using filter fabric or a keyway cutoff trench between the riprap structure and the soil.
 - ◆ Place the filter fabric between the riprap and soil. Extend the fabric across the spillway foundation and sides to the top of the dam; or

- ◆ Excavate a keyway trench along the centerline of the spillway foundation extending up the sides to the height of the dam. The trench should be at least 2 feet deep and 2 feet wide with 1:1 side slopes.
4. Clear the pond area below the elevation of the crest of the spillway to facilitate sediment cleanout.
 5. All cut and fill slopes should be 2:1 or flatter.
 6. Ensure that the stone (drainage) section of the embankment has a minimum bottom width of 3 feet and maximum side slopes of 1:1 that extend to the bottom of the spillway section.
 7. Construct the minimum finished stone spillway bottom width, as shown on the plans, with 2:1 side slopes extending to the top of the over-filled embankment. Keep the thickness of the sides of the spillway outlet structure at a minimum of 21 inches. The weir must be level and constructed to grade to assure design capacity.
 8. Material used in the stone section should be a well-graded mixture of stone with a size of 9 inches (class B erosion control stone is recommended) and a maximum stone size of 14 inches. The stone may be machine placed and the smaller stones worked into the voids of the larger stones. The stone should be hard, angular, and highly weather resistant.
 9. Ensure that the stone spillway outlet section extends downstream past the embankment until stable conditions are reached and outlet velocity is acceptable. Keep the edges of the stone outlet several inches below the surrounding ground and shape the center to confine the outlet stream.
 10. Direct emergency bypass to natural, stable areas. Locate such that flow will not damage the embankment.
 11. Stabilize the embankment and all disturbed areas above the sediment and downstream from the trap immediately after construction.

2.2 SEDIMENT TRAP MAINTENANCE

Inspect temporary sediment traps after each period of significant rainfall. Remove sediment and restore the trap to its original dimensions when the sediment has accumulated to one half the design depth of the trap. Place the sediment that is removed in the designated disposal area and replace the gravel facing.

Check the structure for damage from erosion. Periodically check the depth of the spillway to ensure it is a minimum of 1.5 feet below the low point at the embankment. Immediately fill any settlement of the embankment to slightly above design grade. Any riprap displaced from the spillway must be replaced immediately.

After all the sediment-producing areas have been permanently stabilized, remove the structure and all unstable sediment. Smooth the area to blend with the adjoining areas and stabilize properly.

2.3 DRAINAGE CONTROL REQUIREMENTS

Drainage controls (temporary diversions) may be installed to minimize excess runoff entering the site and limit onsite erosion. Details of the temporary diversions construction are shown on Figure 7.

2.4 TEMPORARY DIVERSION CONSTRUCTION SPECIFICATIONS

1. Remove and properly dispose of all trees, brush, stumps, and other objectionable material.
2. Ensure that the minimum construction cross-section meets all design requirements.
3. Ensure that the top of the dike is not lower at any point than the design elevation plus the specified settlement.
4. Provide sufficient room around diversions to permit machine regrading and cleanout.
5. Vegetate the ridge immediately after construction, unless it will remain in less than 30 working days and will not be subject to erosion.

2.5 TEMPORARY DIVERSION MAINTENANCE

Inspect temporary diversions once a week and after every rainfall. Immediately remove sediment from the flow area and repair the diversion ridge. Carefully check outlets and make timely repairs as needed. When the area protected is permanently stabilized, remove the ridge and the channel to blend with the natural ground level and appropriately stabilize it.

2.6 VEGETATION REQUIREMENTS

Ground cover sufficient to prevent erosion must be established within 30 working days or 120 calendar days of completion of disposal operations. The area will be stabilized with native grasses. Temporary seeding will be utilized as necessary to stabilize the site.

2.7 DUST CONTROL

Dust control measures in the form of water sprays shall be used to suppress unwanted dust when appropriate.

3.0 LCID WASTE HANDLING OPERATIONS

3.1 TYPE, QUANTITY, AND SOURCE OF WASTE

Mr. David Lawson intends to operate a LCID landfill which will accept waste which meets the North Carolina Division of Solid Waste Management requirements. Land clearing debris is defined in the statutes as waste that is generated solely through land clearing activities such as stumps, trees, limbs, brush, grass, and other naturally occurring vegetative matter. A LCID landfill is defined in the rules as a facility for the land disposal of land clearing waste, concrete, brick, concrete block, uncontaminated soil, gravel and rock, untreated and unpainted wood, and yard trash. Yard trash is defined as solid waste resulting from landscaping and yard maintenance such as grass, tree limbs, and similar material. No device which is capable of holding liquid will be allowed for disposal. Asphalt pavement and untreated and unpainted dimensional lumber may also be accepted for disposal.

3.2 GROUNDWATER PROTECTION REQUIREMENTS

Six test pits have been excavated within the footprint of the disposal area. Figure 2 shows the locations of the test pits. Soil encountered in the test pits was consistent in composition. Neither hydric soil conditions, saturated soil, nor groundwater were observed in the test pits. The approximate elevation of the bottom of the test pits ranged between 796 and 800 feet above mean sea level (MSL). The lowest elevation planned for excavation is 810 feet MSL. A separation distance of 4 feet must be maintained between the waste material and groundwater. Solid waste shall not be disposed of in water.

3.3 SPREADING AND COMPACTING REQUIREMENTS

LCID waste will be restricted to the smallest area feasible. The waste will be compacted as densely as practical. Solid wastes shall be spread and compacted not less than ten working days after being deposited into the landfill.

3.4 COVER REQUIREMENTS

If the exposed working area reaches 1 acre in size, the entire acre will be covered with 6 inches of cover soil. Adequate soil cover shall be applied monthly, if not more frequently.

A 12-inch thick intermediate soil cover shall be placed over a waste area where waste placement will be inactive for 12 months or more.

4.0 RECYCLING OPERATIONS

4.1 OVERVIEW

This section describes the required material handling operations for the recycling and processing portion of the facility. Organic wastes and aggregates will be processed for recycling or reuse. Recycled materials will be stored at the facility until there are sufficient quantities for pick up or delivery to various recycling contractors or end-users.

4.2 ACCEPTABLE WASTES

The following wastes may be recycled at the facility:

- ◆ Organic land clearing debris,
- ◆ High carbon yard waste,
- ◆ Wood (untreated and unpainted pallets or construction wood waste),
- ◆ Aggregates (concrete, asphalt pavement, brick, and block), and
- ◆ Other wastes as approved by the Solid Waste Section of the Division of Waste Management.

4.3 PROHIBITED WASTES

Only wastes, as defined in Section 4.2 above or approved by the DWM may be accepted for recycling. No other wastes may be accepted.

4.4 GENERAL PROCEDURES

The facility's recycling area is used to store and separate recyclable materials or pre-sorted materials such as new construction materials. The recycling area will be less than two acres in size and shall not process or store more than 6,000 cubic yards of material per three month period. Grinding operations will be subcontracted. Equipment will be mobilized to the facility for grinding when economical. If the recycling operations are anticipated to exceed 6,000 cubic yards in three months, a treatment and processing permit will be applied for.

The materials to be processed will be handled as follows:

- ◆ Land clearing debris, high carbon yard waste, and untreated and unpainted pallets or construction wood waste may be ground or chipped into boiler fuel as markets allow.
- ◆ Land clearing debris and high carbon yard waste may be ground and piled up to decompose through natural means.
- ◆ Land clearing debris and high carbon yard waste may be ground and composted.
- ◆ Aggregates may be crushed and subsequently stockpiled in the recycling/processing area until removed from the site for sale as fill, aggregate, etc. as markets allow.

4.5 MARKETS

The final destination of the recyclable materials may vary depending upon market prices for such materials. In general, materials which have valid markets will be recycled; however, markets shall fluctuate. In any case, if a viable market or beneficial use cannot be found, the materials will be used or disposed in the LCID landfill onsite.

Anticipated end markets for the recyclable materials are as follows:

Wood	Ground or chipped for boiler fuel, as market allows. Mulch and compost will be sold for landscaping/gardening activities or may be used onsite.
Aggregates	Bricks may be banded and palletized for sale to landscaping contractors; concrete, asphalt, and broken brick and block will be crushed and stockpiled until it is removed from the site for sale as fill, aggregate, etc. as markets allow.

FIGURES

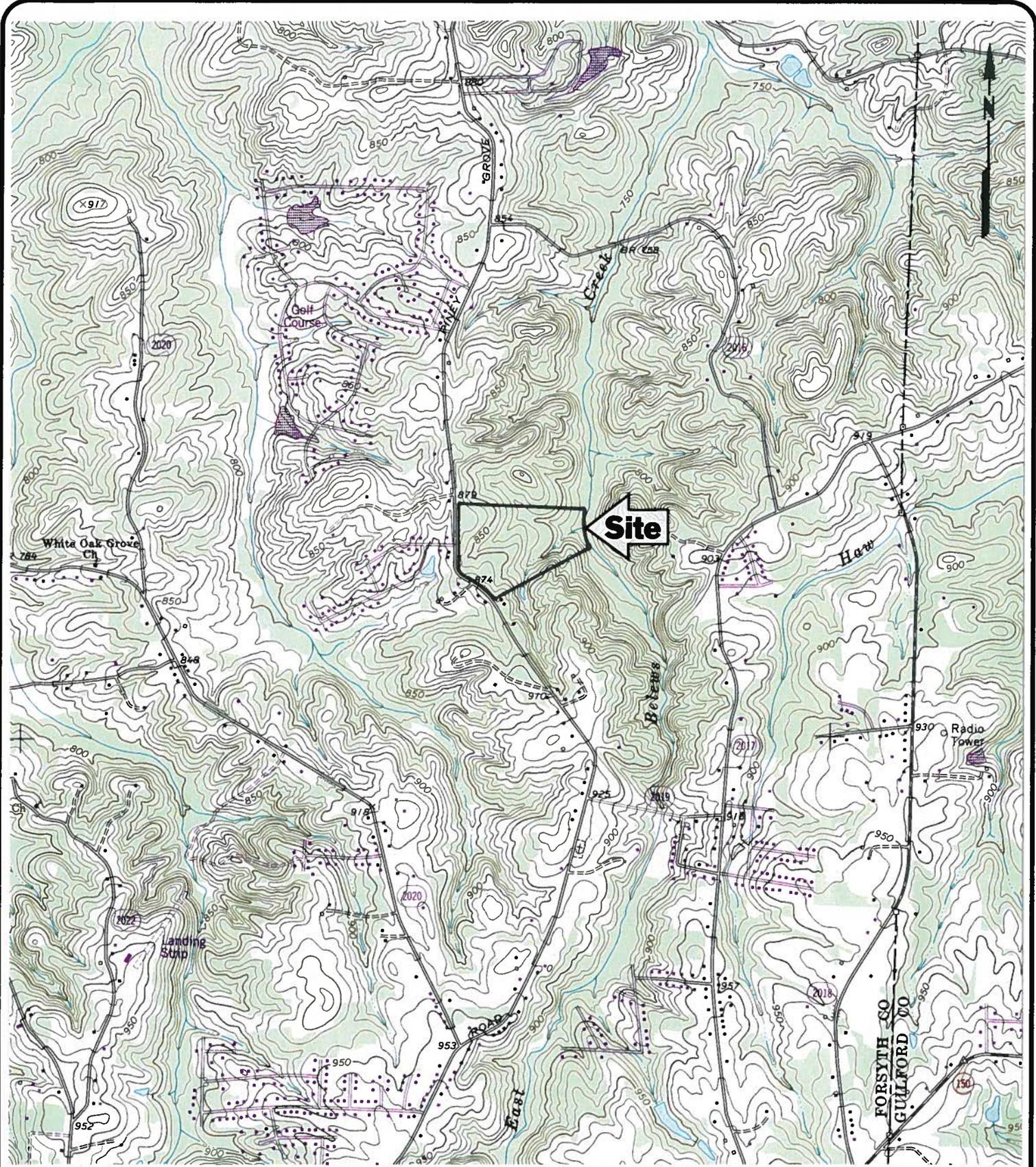


FIGURE 1
SITE LOCATION MAP

Piney Hill Acres LCID Landfill
Piney Grove Road
Kemersville, North Carolina

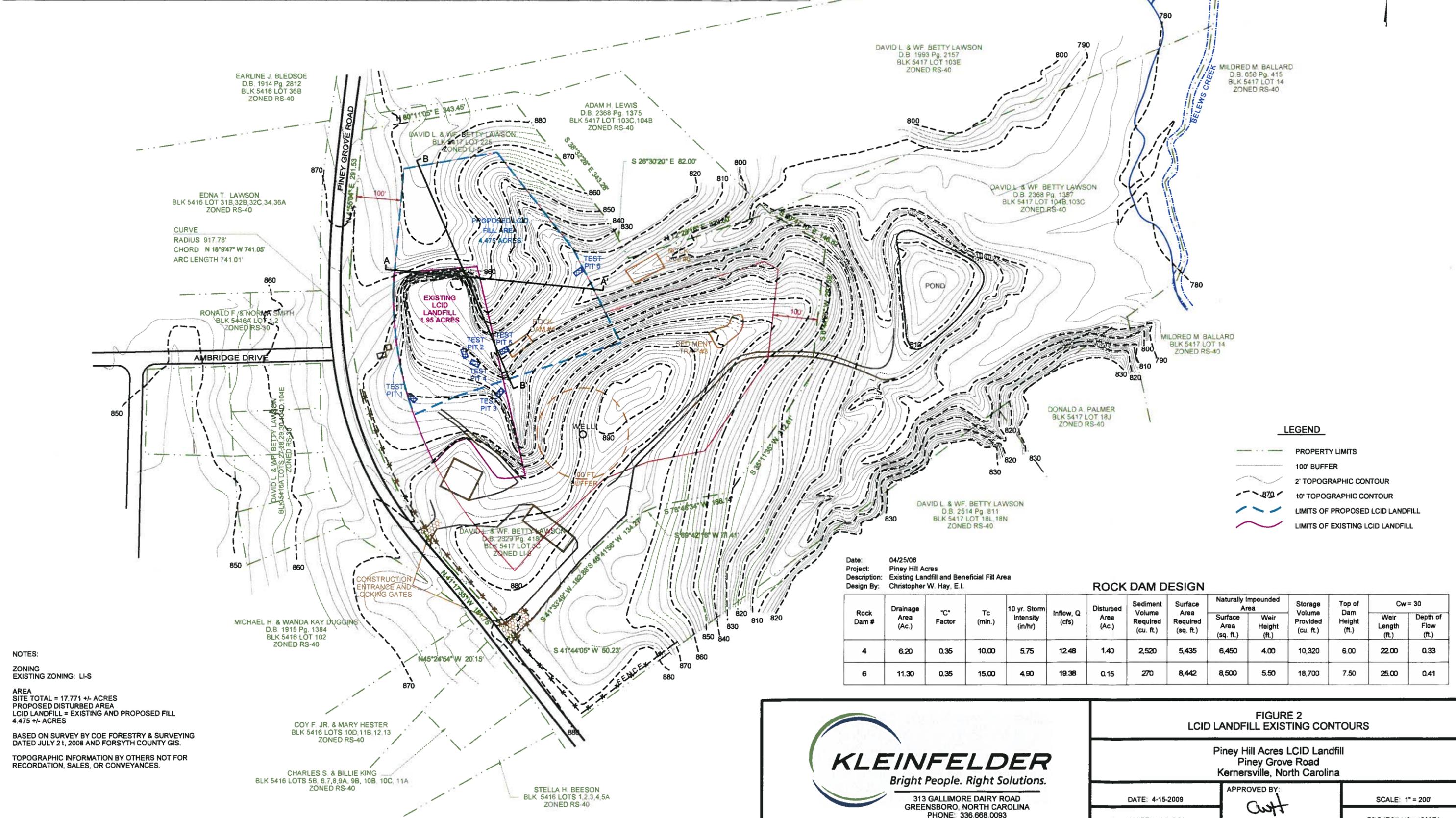
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Bright People. Right Solutions.
313 GALLIMORE DAIRY ROAD
GREENSBORO, NORTH CAROLINA
PHONE: 336.668.0093

DATE: 4-15-2009	APPROVED BY: <i>CWA</i>	SCALE: 1" = 2,000'
SOURCE: USGS 7.5' TOPOGRAPHIC MAP, BELEWS CREEK QUADRANGLE		PROJECT NO: 103374

Date: 04/19/06
 Project: Piney Hill Acres
 Description: Existing Landfill and Beneficial Fill Area
 Design By: Christopher W. Hay, E.I.

EFFICIENCY BASED SEDIMENT TRAP DESIGN

Sediment Trap #	Drainage Area (Ac.)	"C" Factor	Tc (min.)	10 yr. Storm Intensity (in/hr)	Inflow, Q (cfs)	Disturbed Area (Ac.)	Sediment Volume Required (cu. ft.)	Surface Area Required (sq. ft.)	Sediment Basin Dimensions (Bottom Dimensions)				Dimensions at Weir		Sediment Volume Provided (cu. ft.)	Surface Area Provided (cu. ft.)	Weir Height (ft.)	Cw = 3.0	
									Length (ft.)	Width (ft.)	Side Slopes (ft./ft.)	Total Depth (ft.)	Length (ft.)	Width (ft.)				Weir Length (ft.)	Depth of Flow (ft.)
3	0.40	0.35	10.00	5.75	0.81	0.22	396	351	83	43	2.0:1	4.50	95	55	13,112	5,225	3.00	4.00	0.17



NOTES:
 ZONING EXISTING ZONING: LI-S
 AREA SITE TOTAL = 17.771 +/- ACRES
 PROPOSED DISTURBED AREA LCID LANDFILL = EXISTING AND PROPOSED FILL 4.475 +/- ACRES
 BASED ON SURVEY BY COE FORESTRY & SURVEYING DATED JULY 21, 2008 AND FORSYTH COUNTY GIS.
 TOPOGRAPHIC INFORMATION BY OTHERS NOT FOR RECORDATION, SALES, OR CONVEYANCES.

Date: 04/25/06
 Project: Piney Hill Acres
 Description: Existing Landfill and Beneficial Fill Area
 Design By: Christopher W. Hay, E.I.

ROCK DAM DESIGN

Rock Dam #	Drainage Area (Ac.)	"C" Factor	Tc (min.)	10 yr. Storm Intensity (in/hr)	Inflow, Q (cfs)	Disturbed Area (Ac.)	Sediment Volume Required (cu. ft.)	Surface Area Required (sq. ft.)	Naturally Impounded Area		Storage Volume Provided (cu. ft.)	Top of Dam Height (ft.)	Cw = 30	
									Surface Area (sq. ft.)	Weir Height (ft.)			Weir Length (ft.)	Depth of Flow (ft.)
4	6.20	0.35	10.00	5.75	12.48	1.40	2,520	5,435	6,450	4.00	10,320	6.00	22.00	0.33
6	11.30	0.35	15.00	4.90	19.38	0.15	270	8,442	8,500	5.50	18,700	7.50	25.00	0.41

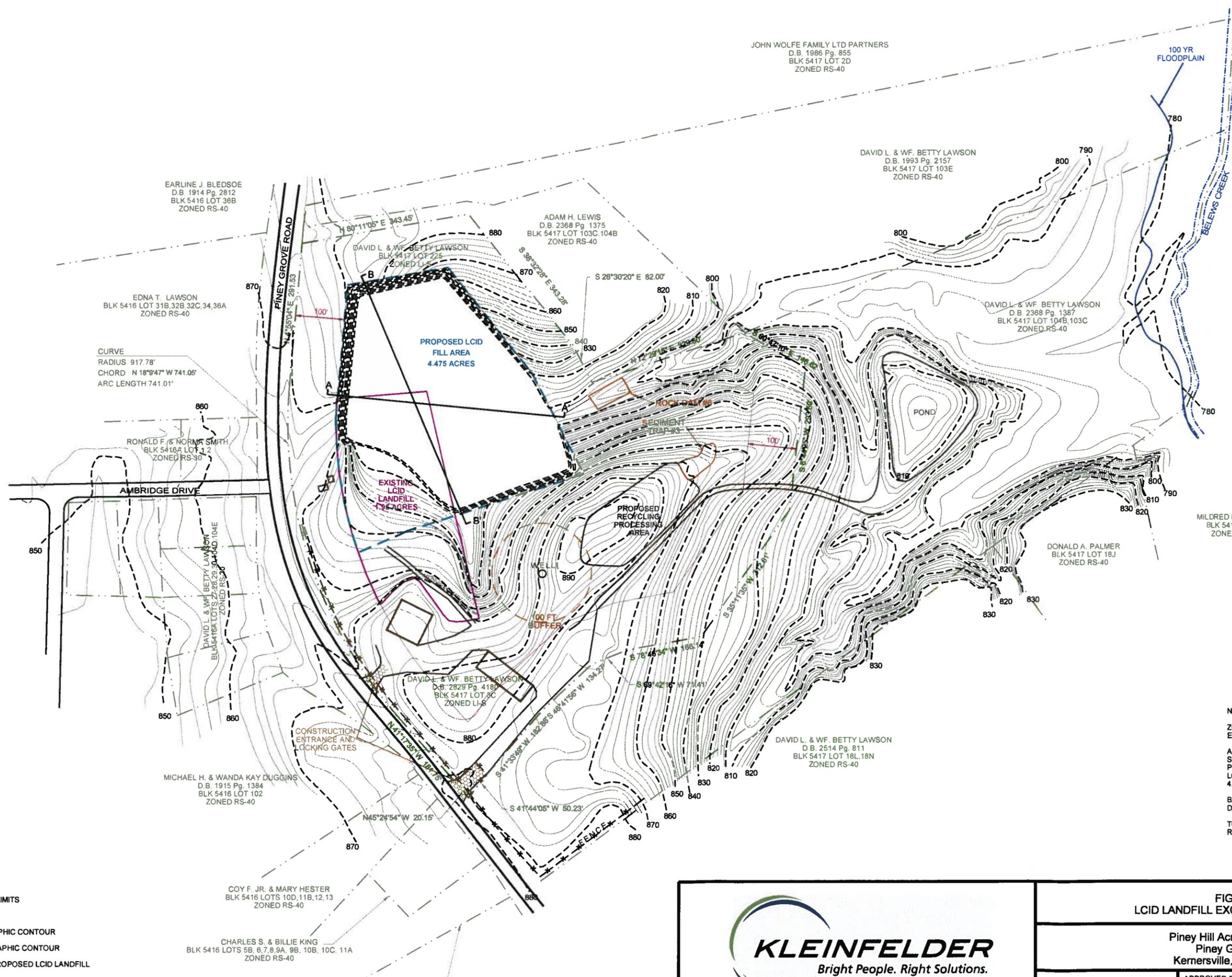
FIGURE 2
LCID LANDFILL EXISTING CONTOURS

Piney Hill Acres LCID Landfill
 Piney Grove Road
 Kernersville, North Carolina

DATE: 4-15-2009
 REVISIONS: GGL

APPROVED BY: *[Signature]*

SCALE: 1" = 200'
 PROJECT NO: 103374



MILDRED M. BALLARD
D.B. 658 Pg. 415
BLK 5417 LOT 14
ZONED RS-40

EARLINE J. BLEDSOE
D.B. 1914 Pg. 2812
BLK 5416 LOT 38B
ZONED RS-40

EDNA T. LAWSON
BLK 5416 LOT 31B, 32B, 32C, 34, 36A
ZONED RS-40

CURVE
RADIUS 917.78'
CHORD N 18° 9' 47" W 741.05'
ARC LENGTH 741.01'

RONALD F. & NORMA SMITH
BLK 5416A LOT 1, 2
ZONED RS-30

DAVID L. & WF BETTY LAWSON
BLK 5416A LOTS 27, 28, 29, 30, 104D, 104E
ZONED RS-30

MICHAEL H. & WANDA KAY DUGGINS
D.B. 1915 Pg. 1384
BLK 5416 LOT 102
ZONED RS-40

COY F. JR. & MARY HESTER
BLK 5416 LOTS 10D, 11B, 12, 13
ZONED RS-40

CHARLES S. & BILLIE KING
BLK 5416 LOTS 5B, 6, 7, 8, 9A, 9B, 10B, 10C, 11A
ZONED RS-40

STELLA H. BEESON
BLK 5416 LOTS 1, 2, 3, 4, 5A
ZONED RS-40

ADAM H. LEWIS
D.B. 2368 Pg. 1375
BLK 5417 LOT 103C, 104B
ZONED RS-40

JOHN WOLFE FAMILY LTD PARTNERS
D.B. 1986 Pg. 855
BLK 5417 LOT 2D
ZONED RS-40

DAVID L. & WF. BETTY LAWSON
D.B. 1993 Pg. 2157
BLK 5417 LOT 103E
ZONED RS-40

DAVID L. & WF. BETTY LAWSON
D.B. 2368 Pg. 1367
BLK 5417 LOT 104B, 103C
ZONED RS-40

DONALD A. PALMER
BLK 5417 LOT 18J
ZONED RS-40

DAVID L. & WF. BETTY LAWSON
D.B. 2514 Pg. 811
BLK 5417 LOT 18L, 18N
ZONED RS-40

NOTES:
ZONING
EXISTING ZONING: LI-S

AREA
SITE TOTAL = 17.771 +/- ACRES
PROPOSED DISTURBED AREA
LCID LANDFILL = EXISTING AND PROPOSED FILL
4.475 +/- ACRES

BASED ON SURVEY BY COE FORESTRY & SURVEYING
DATED JULY 21, 2008 AND FORSYTH COUNTY GIS.

TOPOGRAPHIC INFORMATION BY OTHERS NOT FOR
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LEGEND

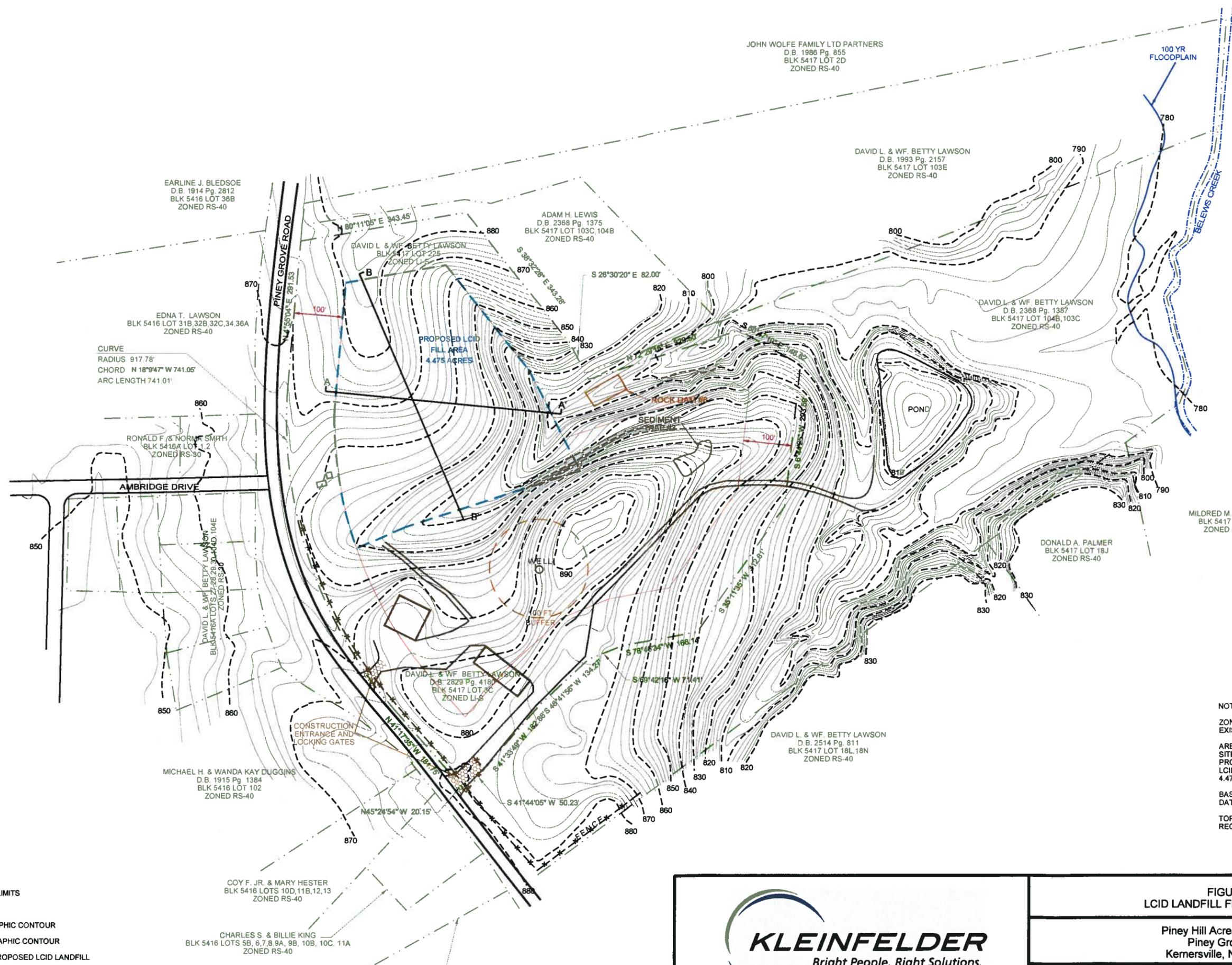
- PROPERTY LIMITS
- 100' BUFFER
- 2' TOPOGRAPHIC CONTOUR
- 10' TOPOGRAPHIC CONTOUR
- LIMITS OF PROPOSED LCID LANDFILL
- LIMITS OF EXISTING LCID LANDFILL

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GREENSBORO, NORTH CAROLINA
PHONE: 336.668.0093

FIGURE 3
LCID LANDFILL EXCAVATED CONTOURS

Piney Hill Acres LCID Landfill
Piney Grove Road
Kernersville, North Carolina

DATE: 4-15-2009	APPROVED BY: 	SCALE: 1" = 200'
REVISED BY: GGL		PROJECT NO: 103374



EARLINE J. BLEDSOE
D.B. 1914 Pg. 2812
BLK 5416 LOT 36B
ZONED RS-40

EDNA T. LAWSON
BLK 5416 LOT 31B, 32B, 32C, 34, 36A
ZONED RS-40

CURVE
RADIUS 917.78'
CHORD N 18° 9' 47" W 741.05'
ARC LENGTH 741.01'

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ZONED RS-40

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BLK 5416 LOT 102
ZONED RS-40

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BLK 5416 LOTS 10D, 11B, 12, 13
ZONED RS-40

CHARLES S. & BILLIE KING
BLK 5416 LOTS 5B, 6, 7, 8, 9A, 9B, 10B, 10C, 11A
ZONED RS-40

STELLA H. BEESON
BLK 5416 LOTS 1, 2, 3, 4, 5A
ZONED RS-40

DAVID L. & W.F. BETTY LAWSON
BLK 5417 LOT 22E
ZONED LI-S

ADAM H. LEWIS
D.B. 2368 Pg. 1375
BLK 5417 LOT 103C, 104B
ZONED RS-40

JOHN WOLFE FAMILY LTD PARTNERS
D.B. 1988 Pg. 855
BLK 5417 LOT 2D
ZONED RS-40

DAVID L. & W.F. BETTY LAWSON
D.B. 1993 Pg. 2157
BLK 5417 LOT 103E
ZONED RS-40

DAVID L. & W.F. BETTY LAWSON
D.B. 2388 Pg. 1357
BLK 5417 LOT 104B, 103C
ZONED RS-40

DAVID L. & W.F. BETTY LAWSON
D.B. 2829 Pg. 418
BLK 5417 LOT 3C
ZONED LI-S

DAVID L. & W.F. BETTY LAWSON
D.B. 2514 Pg. 811
BLK 5417 LOT 18L, 18N
ZONED RS-40

MILDRED M. BALLARD
D.B. 658 Pg. 415
BLK 5417 LOT 14
ZONED RS-40

MILDRED M. BALLARD
BLK 5417 LOT 14
ZONED RS-40

DONALD A. PALMER
BLK 5417 LOT 18J
ZONED RS-40

- LEGEND**
- PROPERTY LIMITS
 - 100' BUFFER
 - 2' TOPOGRAPHIC CONTOUR
 - 10' TOPOGRAPHIC CONTOUR
 - LIMITS OF PROPOSED LCID LANDFILL

NOTES:

ZONING
EXISTING ZONING: LI-S

AREA
SITE TOTAL = 17.771 +/- ACRES
PROPOSED DISTURBED AREA
LCID LANDFILL = EXISTING AND PROPOSED FILL
4.475 +/- ACRES

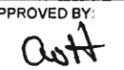
BASED ON SURVEY BY COE FORESTRY & SURVEYING
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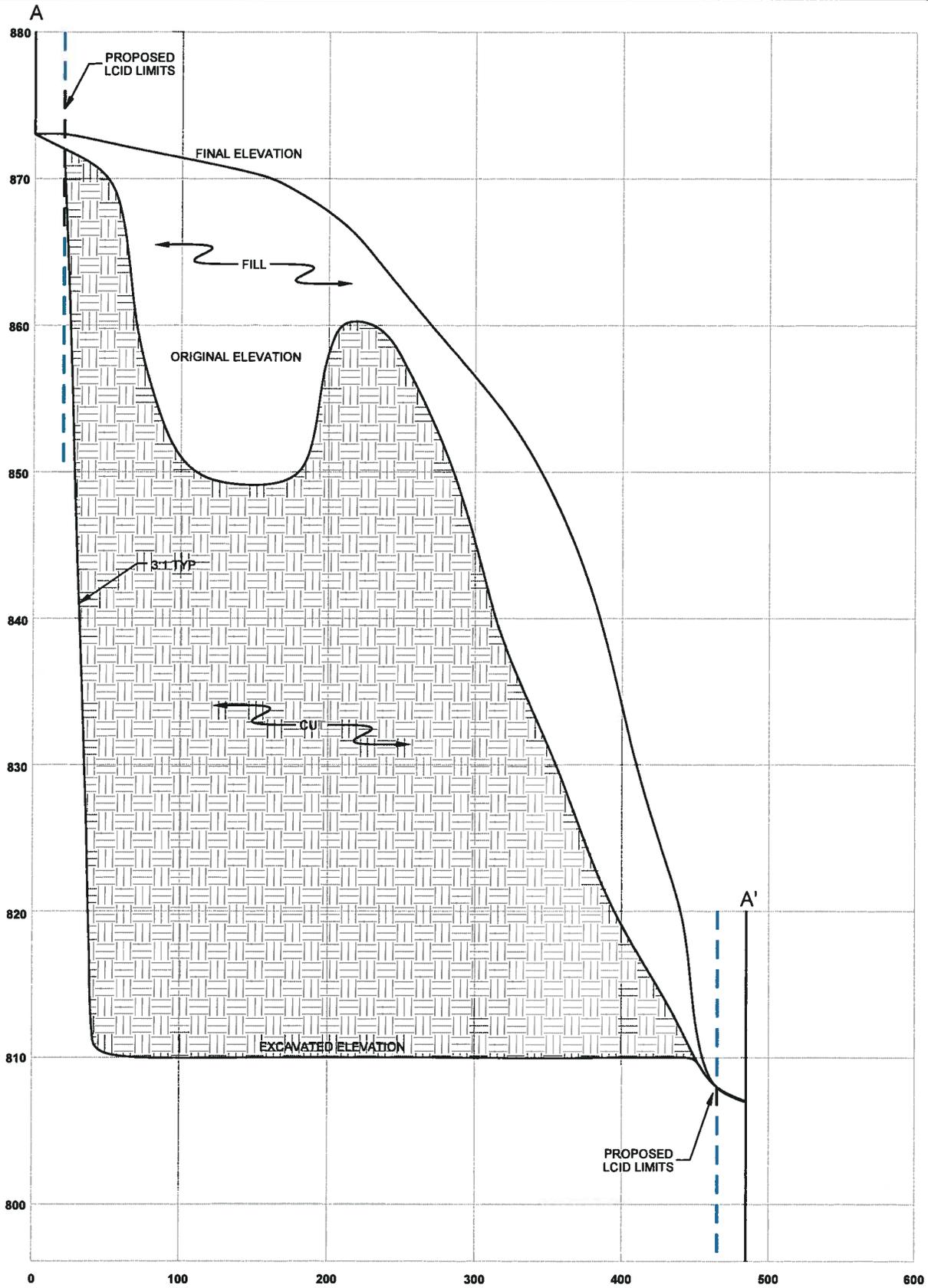
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313 GALLIMORE DAIRY ROAD
GREENSBORO, NORTH CAROLINA
PHONE: 336.668.0093

FIGURE 4 LCID LANDFILL FINAL CONTOURS		
Piney Hill Acres LCID Landfill Piney Grove Road Kernersville, North Carolina		
DATE: 4-15-2009	APPROVED BY: 	SCALE: 1" = 200'
REVISED BY: GGL		PROJECT NO: 103374



**FIGURE 5
CROSS SECTION A - A'**

Piney Hill Acres LCID Landfill
Piney Grove Road
Kemersville, North Carolina

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313 GALLIMORE DAIRY ROAD
GREENSBORO, NORTH CAROLINA
PHONE: 336.668.0093

DATE: 4-15-2009
DRAWN BY: GGL

APPROVED BY:
[Signature]

SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL
PROJECT NO: 103374

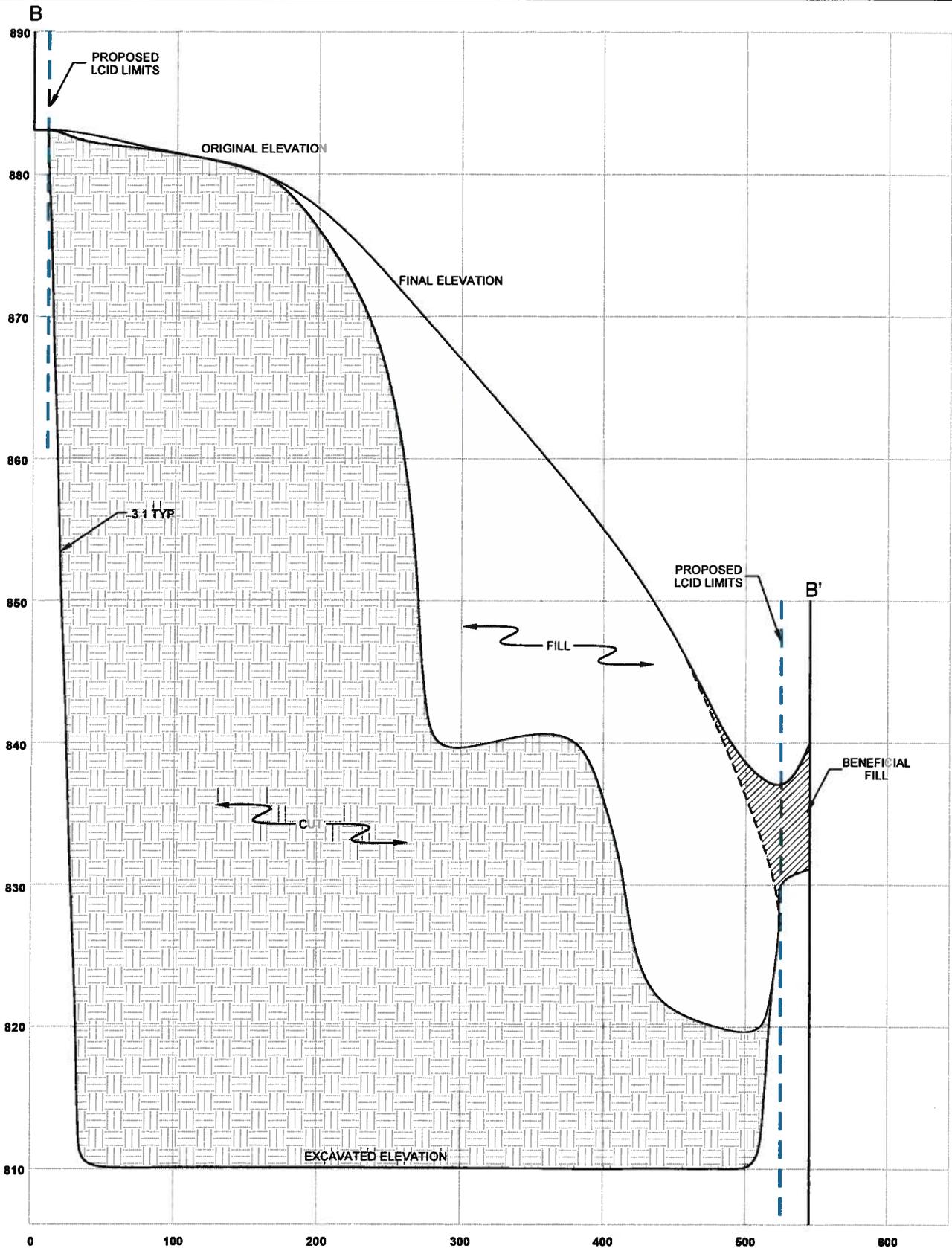


FIGURE 6
CROSS SECTION B - B'

Piney Hill Acres LCID Landfill
Piney Grove Road
Kernersville, North Carolina



313 GALLIMORE DAIRY ROAD
GREENSBORO, NORTH CAROLINA
PHONE: 336.668.0093

DATE: 4-15-2009

APPROVED BY:

SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL

DRAWN BY: GGL

PROJECT NO: 103374

SEEDING NOTES

- ALL SILT DAMS, FENCES, BASINS AND OTHER EROSION CONTROL DEVICES TO BE CONSTRUCTED ACCORDING TO CITY AND STATE STANDARDS AND KEPT IN WORKING ORDER UNTIL ALL INDICATED CONSTRUCTION ON THE DRAWINGS IS COMPLETED AND SOIL IS STABILIZED.
- STABILIZE ALL AREAS AS THEY ARE COMPLETED WITH PERMANENT SEEDING AS SHOWN IN THE SEEDING SPECIFICATIONS. ALL AREAS MUST BE STABILIZED WITHIN 21 DAYS OF COMPLETION. SPECIAL ATTENTION SHALL BE PAID TO SLOPES TO INSURE THAT THEY WILL BE STABILIZED WITHIN 21 DAYS OF COMPLETION.
- ALL ROCK OVER 2" DIAMETER IN SIZE SHALL BE REMOVED PRIOR TO SEEDING.
- THE SOIL SHALL BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF NOT LESS THAN FIVE (5) INCHES IMMEDIATELY PRIOR TO SEEDING.
- IN ALL CASES THE SEED USED MUST BE CERTIFIED BY THE NORTH CAROLINA DEPARTMENT OF AGRICULTURE. THE DATE OF CERTIFICATION OF ALL SEED MUST BE WITHIN EIGHT (8) MONTHS OF THE DATE OF SOWING.
- TEMPORARY SEEDING SPECIFICATIONS MAY BE USED TO STABILIZE AREAS THAT WILL NOT BE DISTURBED AGAIN FOR AT LEAST 21 DAYS. PERMANENT SEEDING SHOULD BE USED AT COMPLETION AND FOR AREAS THAT WILL NOT BE DISTURBED FOR MORE THAN ONE GROWING SEASON.

PERMANENT SEEDING (TYPE II)

AS A MINIMUM REQUIREMENT, ALL GRADED AREAS NOT UNDER PAVEMENT AND WITHIN THE RIGHT-OF-WAY AND/OR EASEMENTS SHALL BE PREPARED, FERTILIZED AND LIMED, SEED, AND MULCHED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION AS FOLLOWS (SPECIFICATIONS PER 1,000 SQUARE FEET):

- 100 LBS. OF LIME
 - 15 LBS. OF 10-20-20 OR 15 LBS. OF 10-10-10 IN COMBINATION W/ 3 LBS. OF 0-45-0
 - 4 LBS. OF TALL FESCUE, CONTAINING A BLEND OF 2 OR MORE TALL FESCUES
 - 1 LB. OF SERICEA LESPEDEZA (USE UNSCARIFIED SEED AUGUST 15 TO FEBRUARY 1)
 - 1/4 LB. OF GERMAN MILLET (MAY 1 TO AUGUST 15)
 - 1 LB. OF RYE GRAIN (PRIOR TO MAY 1 OR AFTER AUGUST 15)
- USE STRAW MULCH AND ASPHALT EMULSION TACK AT A RATE OF 150 GALLONS PER ACRE TO COVER SEED UNTIL GROWTH IS ESTABLISHED.

- SEEDBED PREPARATION:**
- REMOVE ANY UNDESIRABLE GROUND COVERS INCLUDING ANY TEMPORARY SEEDING.
 - RIP THE AREA TO BE SEED TO A MIN. DEPTH OF 4"-6"
 - REMOVE ALL LOOSE ROCKS, ROOTS, ETC. LEAVING SURFACE SMOOTH AND UNIFORM.
 - APPLY SEED, AGRICULTURAL LIME, AND FERTILIZER UNIFORMLY AND MIX WITH THE SOIL.
 - MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.

TEMPORARY SEEDING

TEMPORARY SEEDING RECOMMENDATIONS:

FOR LATE WINTER/EARLY SPRING:

SEEDING MIXTURE SPECIES:	RATE (LB/ACRE):
RYE (GRAIN)	120
ANNUAL LESPEDEZA	50
(KOBÉ IN PIEDMONT & COASTAL PLAIN, KOREAN IN MOUNTAINS)	

SEEDING DATES
MOUNTAINS—FEB. 1 - MAY 1
PIEDMONT—JAN. 1 - MAY 1
COASTAL PLAIN—DEC. 1 - APR. 15

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

FOR SUMMER:

SEEDING MIXTURE SPECIES:	RATE (LB/ACRE):
GERMAN MILLET	40

IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUDAN GRASS MAY BE SUBSTITUTED AT A RATE OF 90 LB/ACRE.

SEEDING DATES

MOUNTAINS—MAY 15 - AUG. 15
PIEDMONT—MAY 1 - AUG. 15
COASTAL PLAIN—APR. 15 - AUG. 15

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

FOR FALL:

SEEDING MIXTURE SPECIES:	RATE (LB/ACRE):
RYE (GRAIN)	120

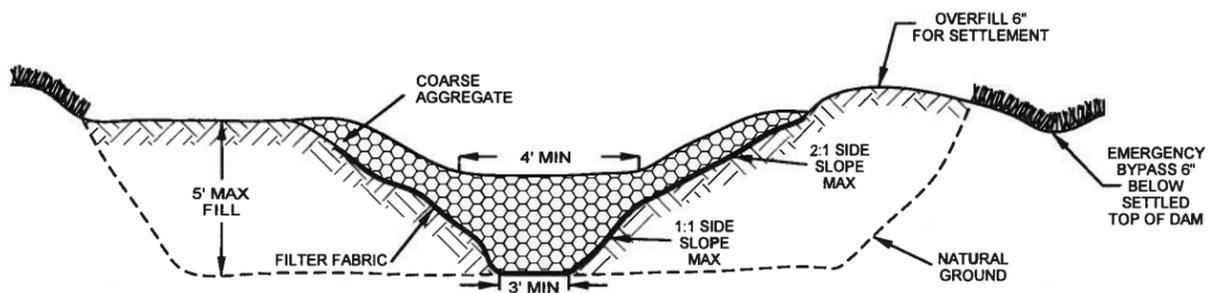
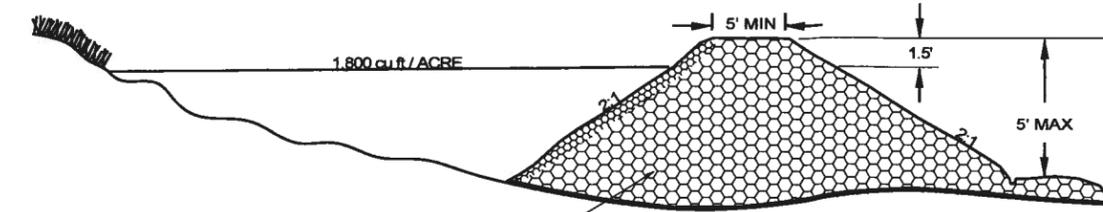
SEEDING DATES
MOUNTAINS—AUG. 15 - DEC. 15
PIEDMONT AND COASTAL PLAIN—AUG. 15 - DEC. 30

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

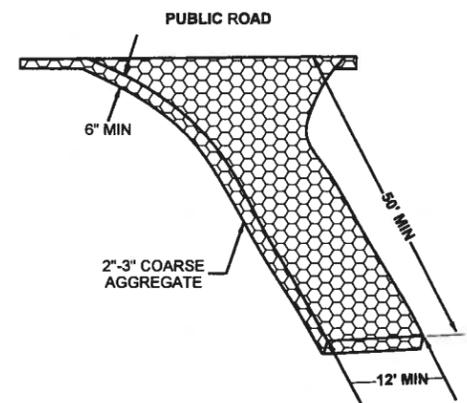
MULCH
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBÉ (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

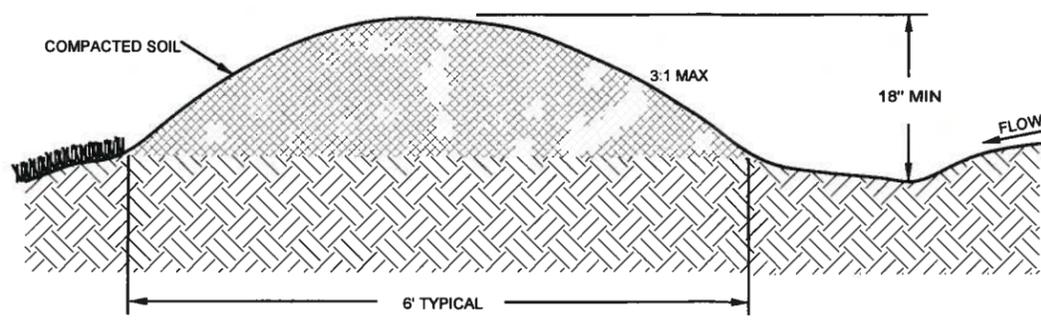
- SEEDBED PREPARATION:**
- RIP AREA TO BE SEED TO A MINIMUM DEPTH OF 4-8 INCHES.
 - REMOVE ALL LOOSE ROCKS, ROOTS, ETC. LEAVING SURFACE SMOOTH AND UNIFORM.
 - APPLY SEED, AGRICULTURAL LIME, FERTILIZER AND SUPER PHOSPHATE UNIFORMLY AND MIX WITH THE SOIL.
 - SEED ON A FRESHLY PREPARED SEEDBED AND COVER THE SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
 - MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.



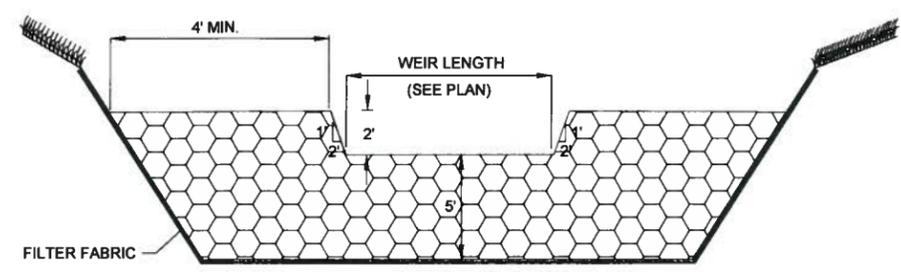
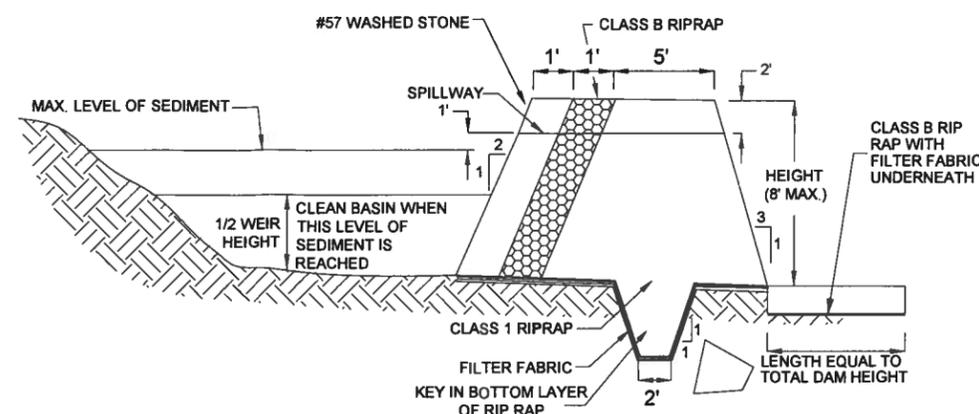
SEDIMENT TRAP (10 YEAR STORM)



TEMPORARY CONSTRUCTION ENTRANCE



TEMPORARY DIVERSION



- NOTES:**
- ROCK ABUTMENTS SHALL EXTEND TO AN ELEVATION AT LEAST 2 FT ABOVE THE SPILLWAY. ABUTMENTS SHALL BE A MINIMUM OF 5 FEET THICK WITH 2:1 UPSTREAM AND 3:1 DOWNSTREAM SIDE SLOPES. THE ROCK ABUTMENTS SHALL EXTEND DOWN THE DOWNSTREAM FACE OF THE DAM TO THE TOE, AT LEAST 1 FT HIGHER THAN THE REST OF THE DAM TO PROTECT THE EARTH ABUTMENTS FROM SCOUR.
 - OUTLET PROTECTION - A ROCK APRON AT LEAST 1.5 FT THICK SHALL EXTEND DOWNSTREAM FROM THE TOE OF THE DAM, ON ZERO GRADE, A SUFFICIENT DISTANCE TO PREVENT CHANNEL EROSION, OR A DISTANCE EQUAL TO THE HEIGHT OF THE DAM WHICHEVER IS GREATER.
 - ROCK FILL - ROCK SHALL BE WELL GRADED, HARD, EROSION RESISTANT STONE WITH A MINIMUM D50 SIZE OF 9 INCHES.
 - PROTECTION FROM "PIPING" - A KEYWAY LINED WITH GEOTEXTILE FILTER FABRIC SHALL BE ON THE SOIL FOUNDATION UNDER THE ROCK FILL. TO PREVENT SOIL MOVEMENT AND PIPING UNDER THE DAM, THE FILTER FABRIC MUST EXTEND FROM THE KEYWAY TO THE DOWNSTREAM EDGE OF THE APRON AND MUST RUN UNDER THE DAMS ABUTMENTS.
 - BASIN DEWATERING - THE ENTIRE UPSTREAM FACE OF THE ROCK STRUCTURE SHALL BE COVERED WITH 1' OF CLASS "B" RIP RAP AND 1' OF FINE GRAVEL (NCDOT #57 WASHED STONE OR EQUIVALENT) TO REDUCE THE DRAINAGE RATE.

- CONSTRUCTION SPECIFICATIONS**
- CLEAR THE AREAS UNDER THE EMBANKMENT AND STRIP IT OF ROOTS AND OTHER OBJECTIONABLE MATERIAL. CLEAR THE RESERVOIR AREA TO FACILITATE SEDIMENT REMOVAL.
 - EXCAVATE A CUTOFF TRENCH A MINIMUM OF 2 FT DEEP AND 2 FT WIDE WITH 1:1 SIDE SLOPES UNDER THE TOTAL LENGTH OF THE DAM AT ITS CENTERLINE. LINE THE TRENCH WITH EXTRA-STRENGTH FILTER FABRIC BEFORE BACKFILLING WITH ROCK. APPLY FILTER FABRIC UNDER THE ROCKFILL EMBANKMENT, FROM THE UPSTREAM EDGE OF THE KEYWAY TO THE DOWNSTREAM EDGE OF THE APRON. OVERLAP FILTER MATERIAL A MINIMUM OF 1 FT AT ALL JOINTS, WITH THE UPSTREAM STRIP LAID OVER THE DOWNSTREAM STRIP.
 - CONSTRUCT THE EMBANKMENT WITH WELL-GRADED ROCK AND GRAVEL TO THE SIZE AND DIMENSIONS SHOWN ON THE DRAWINGS. IT IS IMPORTANT THAT ROCK ABUTMENTS BE AT LEAST 2 FT HIGHER THAN THE SPILLWAY CREST AND AT LEAST 1 FT HIGHER THAN THE DOWNSTREAM FACE OF THE DAM, ALL THE WAY TO PREVENT SCOUR AND EROSION AT THE ABUTMENTS.
 - SEDIMENT-LADEN WATER FROM THE CONSTRUCTION SITE SHOULD BE DIVERTED INTO THE BASIN RESERVOIR AT THE FURTHEST AREA FROM THE DAM.
 - CONSTRUCT THE ROCK DAM BEFORE THE BASIN AREA IS CLEARED TO MINIMIZE SEDIMENT YIELD FROM CONSTRUCTION OF THE BASIN. STABILIZE IMMEDIATELY ALL AREAS DISTURBED DURING THE CONSTRUCTION OF THE DAM EXCEPT THE SEDIMENT POOL.

- MAINTENANCE**
- CHECK SEDIMENT BASINS AFTER EACH RAINFALL. REMOVE SEDIMENT AND RESTORE ORIGINAL VOLUME WHEN SEDIMENT ACCUMULATES TO ABOUT ONE-HALF THE DESIGN VOLUME.
 - CHECK THE STRUCTURE FOR EROSION, PIPING, AND ROCK DISPLACEMENT AFTER EACH SIGNIFICANT RAINSTORM AND REPAIR IMMEDIATELY.
 - REMOVE THE STRUCTURE AND ANY UNSTABLE SEDIMENT IMMEDIATELY AFTER THE CONSTRUCTION SITE HAS BEEN PERMANENTLY STABILIZED. SMOOTH THE BASIN SITE TO BLEND WITH THE SURROUNDING AREA AND STABILIZE. ALL WATER AND SEDIMENT SHALL BE REMOVED FROM THE BASIN PRIOR TO DAM REMOVAL. SEDIMENT SHALL BE PLACED IN DESIGNATED DISPOSAL AREAS AND NOT ALLOWED TO FLOW INTO STREAMS OR DRAINAGEWAYS DURING STRUCTURE REMOVAL.

ROCK DAM SEDIMENT BASIN

313 GALLIMORE DAIRY ROAD
GREENSBORO, NORTH CAROLINA
PHONE: 336.668.0093

**FIGURE 7
EROSION CONTROL DETAILS**

Piney Hill Acres LCID Landfill
Piney Grove Road
Kernersville, North Carolina

APPROVED BY: *[Signature]*

DATE: 5-16-2006

DRAWN BY: DRK

SCALE: NA

PROJECT NO: 103374

APPENDIX A

BOARD OF COMMISSIONERS

DAVID R. PLYLER, Chairman
DEBRA CONRAD, Vice Chair
BEAUFORT O. BAILEY
TED KAPLAN
RICHARD V. LINVILLE
WALTER MARSHALL
GLORIA D. WHISENHUNT



J. DUDLEY WATTS, Jr.
County Manager
A. EDWARD JONE
Deputy County Manager
DAMON SANDERS-PRATT
Assistant County Manager
CARLA D. HOLT
Clerk to the Board
JANE F. COLVIN
Director, External Communications

FORSYTH COUNTY, NORTH CAROLINA

March 18, 2009

David Lee Lawson, LLC
2081 Piney Grove Road
Kernersville, NC 27284

Re: Zoning Map Amendment of David Lee Lawson, LLC
(Zoning Docket F-1508)

Dear Mr. Lawson:

At its meeting of March 16, 2009, the Board of Commissioners approved the above subject. Pursuant to that action, enclosed please find the following:

1. A copy of the ordinance changing the zoning classification of the property from **RS-40** to **LI-S**.
2. A copy of the **Special Use District Permit** for the above zoning petition.
3. At least one copy of the **site plan** for the above zoning petition.

The above items have been properly stamped and/or signed showing approval by the Commissioners. If you require additional information regarding this subject, please do not hesitate to contact this office.

Sincerely,

Carla D. Holt, Clerk
Forsyth County Board of Commissioners

CDH/kh

Enclosures

pc: A. Paul Norby, AICP, Director of Planning
William A. (Pete) Rodda, County Assessor/Collector
Charles Norton, Inspections Director
Rick Plunkett, County Fire Department
Robert Prestwood, City Engineering
S. Pat Ivey, Division Engineer, NCDOT
Jeff Seagle, Bell South Engineering
Lynn Ruscher, Planning Department

COUNTY ORDINANCE - SPECIAL USE

Zoning Petition of David Lee Lawson, LLC, Docket F-1508

AN ORDINANCE AMENDING
THE FORSYTH COUNTY
ZONING ORDINANCE AND THE
OFFICIAL ZONING MAP OF
THE COUNTY OF FORSYTH,
NORTH CAROLINA

BE IT ORDAINED by the Board of County Commissioners of the County of Forsyth as follows:

Section 1. The Zoning Ordinance of the *Unified Development Ordinances* of the County of Forsyth, North Carolina, and the Official Zoning Map of the County of Forsyth, North Carolina, are hereby amended by changing from RS-40 to LI-S (Landfill, Land Clearing/Inert Debris, greater than 2 acres; Dirt Storage; Agricultural Production, Crops; and Agricultural Production, Livestock) the zoning classification of the following described property:

PIN #'s 6888-74-4320 and 6888-73-3709

Section 2. This Ordinance is adopted after approval of the site plan entitled David Lee Lawson, LLC, and identified as Attachment A of the Special Use District Permit issued by the Forsyth County Board of Commissioners the 16 day of March, 2009 to David Lee Lawson, LLC.

Section 3. The Board of Commissioners hereby directs the issuance of a Special Use District Permit pursuant to the Zoning Ordinance of the *Unified Development Ordinances* for a development to be known as David Lee Lawson, LLC. Said Special Use District Permit and site plan with associated documents are attached hereto and incorporated herein.

Section 4. This Ordinance shall be effective from and after its adoption.

ADOPTED

MAR 16 2009

**Forsyth County Board
of Commissioners**

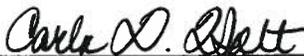
COUNTY, SPECIAL USE DISTRICT PERMIT

SPECIAL USE DISTRICT PERMIT

Issued by the Forsyth County
Board of Commissioners

The Forsyth County Board of Commissioners issues a Special Use District Permit for the site shown on the site plan map included in this zoning petition of David Lee Lawson, LLC (Zoning Docket F-1508). The site shall be developed in accordance with the plan approved by the Board and bearing the inscription: "Attachment A, Special Use District Permit for LI-S (Landfill, Land Clearing/Inert Debris, greater than 2 acres; Dirt Storage; Agricultural Production Crops; and Agricultural Production, Livestock), approved by the Forsyth County Board of Commissioners the 16 day of March, 2009" and signed, provided the property is developed in accordance with requirements of the LI-S zoning district of the Zoning Ordinance of the *Unified Development Ordinances* of the County Code, the Erosion Control Ordinance, and other applicable laws, and the following conditions be met:

- **PRIOR TO THE ISSUANCE OF GRADING PERMITS:**
 - a. Developer shall update a driveway permit from the North Carolina Department of Transportation.
 - b. Developer shall file a reclamation plan for the reuse of this property with the Inspections Division.
- **PRIOR TO THE ISSUANCE OF OCCUPANCY PERMITS:**
 - a. Developer shall install all improvements as per driveway permit which shall include right-of-way dedication of 35' from centerline of Piney Grove Road.
- **OTHER REQUIREMENTS:**
 - a. Should the use of Landfill, Land Clearing and Inert Debris, greater than two acres cease to operate for a period of one calendar year, the zoning of PIN #6888-74-4320 and 6888-73-3709 shall revert back to RS-40 without further public notice, proceedings, hearings, or Board action as per Chapter B, Article VI, Section 6-2.2(H) of the UDO.



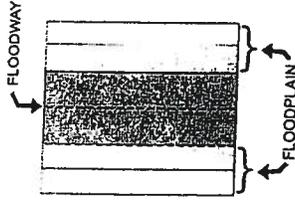
Carla D. Holt, Clerk

DOCKET #: F1508
(continued from 1/8/09)

PROPOSED ZONING:
LI-S

EXISTING ZONING:
RS40

PETITIONER:
David Lee Lawson
LLC for property owned
by Same



SCALE: 1" represents 600'

STAFF: Roberts

GMA: 5

ACRES: 17.77

NEAREST
BLDG: 6' south

MAP(S): 684882

