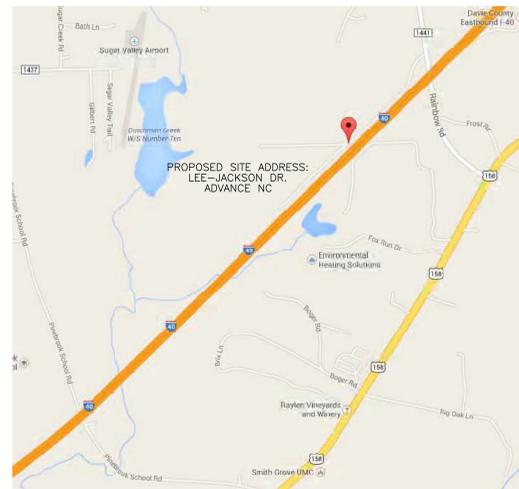


# WALLACE FARM INC. TYPE 3 COMPOST FACILITY DAVIE COUNTY, NC

LOCATION MAP



## WATERSHED INFORMATION

RECEIVING WATER BODY: SUGAR CREEK, CLASS B  
WATERSHED: YADKIN PEE-DEE RIVER BASIN

## INDEX OF DRAWINGS

- SHEET 1 ONE-FOURTH MILE MAP
- SHEET 2 SITE PLAN - EXISTING SITE FEATURES
- SHEET 3 SITE PLAN - PROPOSED SITE FEATURES
- SHEET 4 DETAILS
- SHEET 5 DETAILS

# JULY 2014

PREPARED BY:

**GARRETT  
& MOORE**

Engineering for the Power and Waste Industries

1100 CRESCENT GREEN DRIVE, SUITE 208

CARY, NORTH CAROLINA 27518

TEL: 919 - 792 - 1900 FAX: 866 - 311 - 7206

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NC FIRM NO. C-2910





This drawing depicts the information required by Rule .1405, (b) (1) as follows:  
 (1) An aerial photograph or scaled drawing, where one inch is less than or equal to 400 feet, accurately showing the area within one-fourth mile of the proposed site's boundaries with the following specifically identified:  
 (a) Entire property owned or leased by the person proposing the facility;  
 (b) Location of all homes, wells, industrial buildings, public or private utilities, roads, watercourses, dry runs, and other applicable information regarding the general topography within 500 feet of the proposed facility; and  
 (c) Land use zoning of the proposed site.

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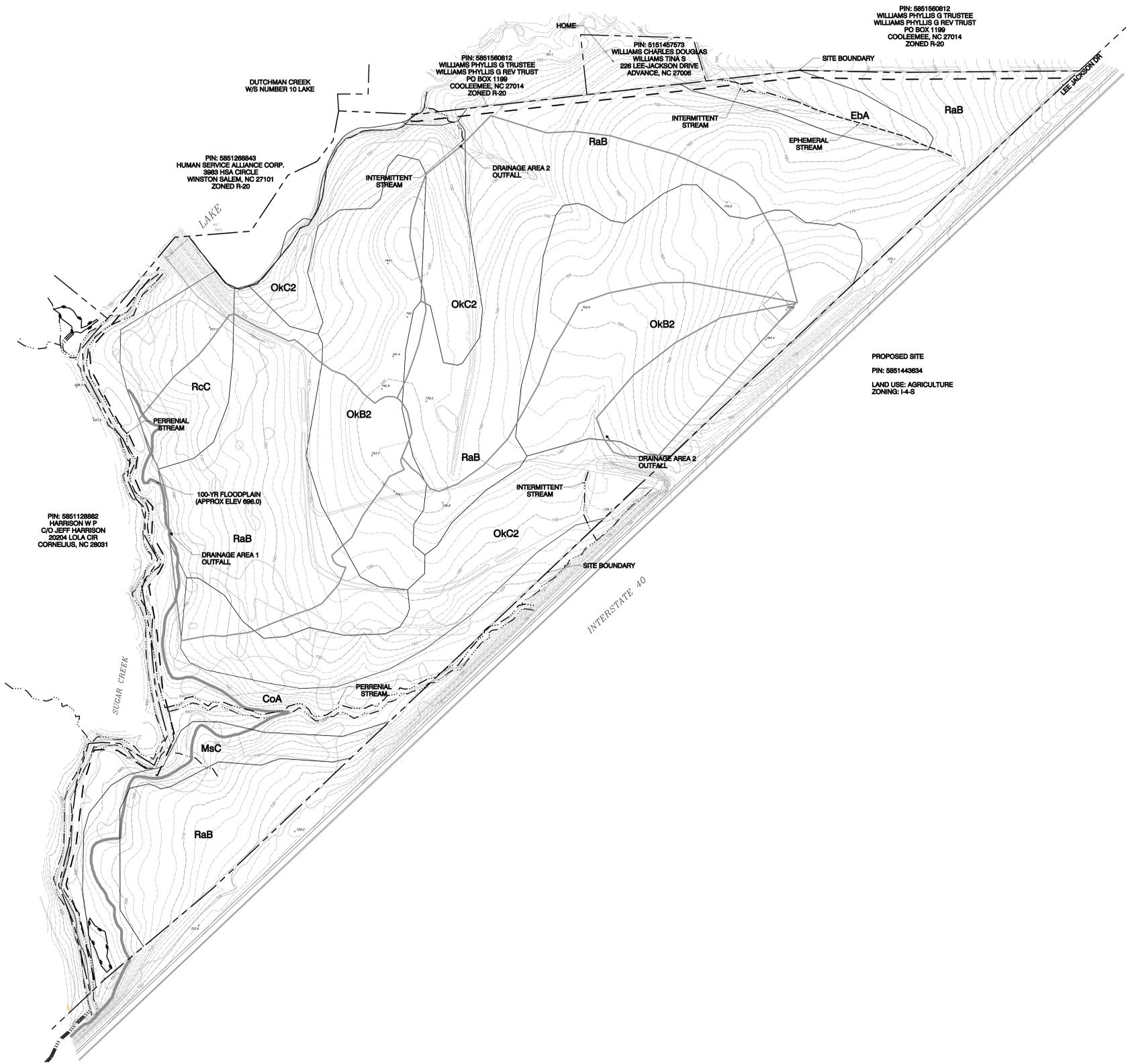
**GARRETT & MOORE**  
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 CARY, NC 27518  
 TEL: 919-706-1900  
 FAX: 919-911-7206  
 www.garrett-moore.com

**WALLACE FARM INC. TYPE 3 COMPOST FACILITY  
 DAVIE COUNTY NC**

**ONE-FOURTH MILE MAP**



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**ZONING CONSIDERATIONS**

Property indicated for development is zoned Industrial I-4 Special Conditions. Special conditions are met as follows:

- The following will not be permitted:
  - \*Landfills
  - \*Carbon and better products manufacturing
  - \*Chemical manufacturing
  - \*Pole treating plants, coal and wood yards
  - \*Tire manufacturing and recapping
  - \*Waste sites (hazardous)
  - \*Wrecking yards or junk yards
- All entrances on public streets will be landscaped according to Davie County Development standards.
- Boundaries with adjoining residentially zoned property will have a densely planted and maintained buffer strip of 50 feet.
- Operations at the facility will be performed in accordance with federal, state, and local site requirements.

**SOIL TYPES LEGEND**

- CoA Codorus loam, 0 to 2 percent slopes, frequently flooded
- EbA Elbert loam, 0 to 2 percent slopes, frequently flooded
- MsC Mocksville sandy loam, 8 to 15 percent slopes
- OkB2 Oak Level clay loam, 2 to 8 percent slopes, moderately eroded
- OkC2 Oak Level clay loam, 8 to 15 percent slopes, moderately eroded
- RaB Rasalo fine sandy loam, 2 to 8 percent slopes
- RcC Rasalo fine sandy loam, 2 to 8 percent slopes

**LEGEND**

- 740 --- EXISTING GRADE - INDEX CONTOUR
- --- EXISTING GRADE - INTERMEDIATE CONTOUR
- --- PROPERTY LINE
- --- PERENNIAL STREAM (BANK TO BANK DELINEATION)
- --- INTERMITTENT STREAM (CENTERLINE DELINEATION)
- --- EPHEMERAL STREAM (CENTERLINE DELINEATION)
- --- WETLAND
- --- 100-YR FLOOD ELEVATION
- --- 30' RESIDENTIAL ZONING BUFFER
- --- PREDEVELOPMENT DRAINAGE AREA



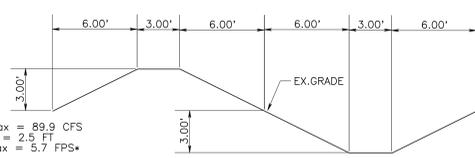
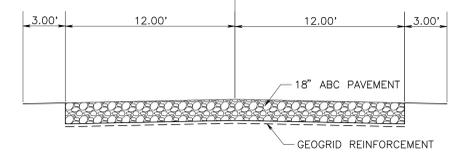
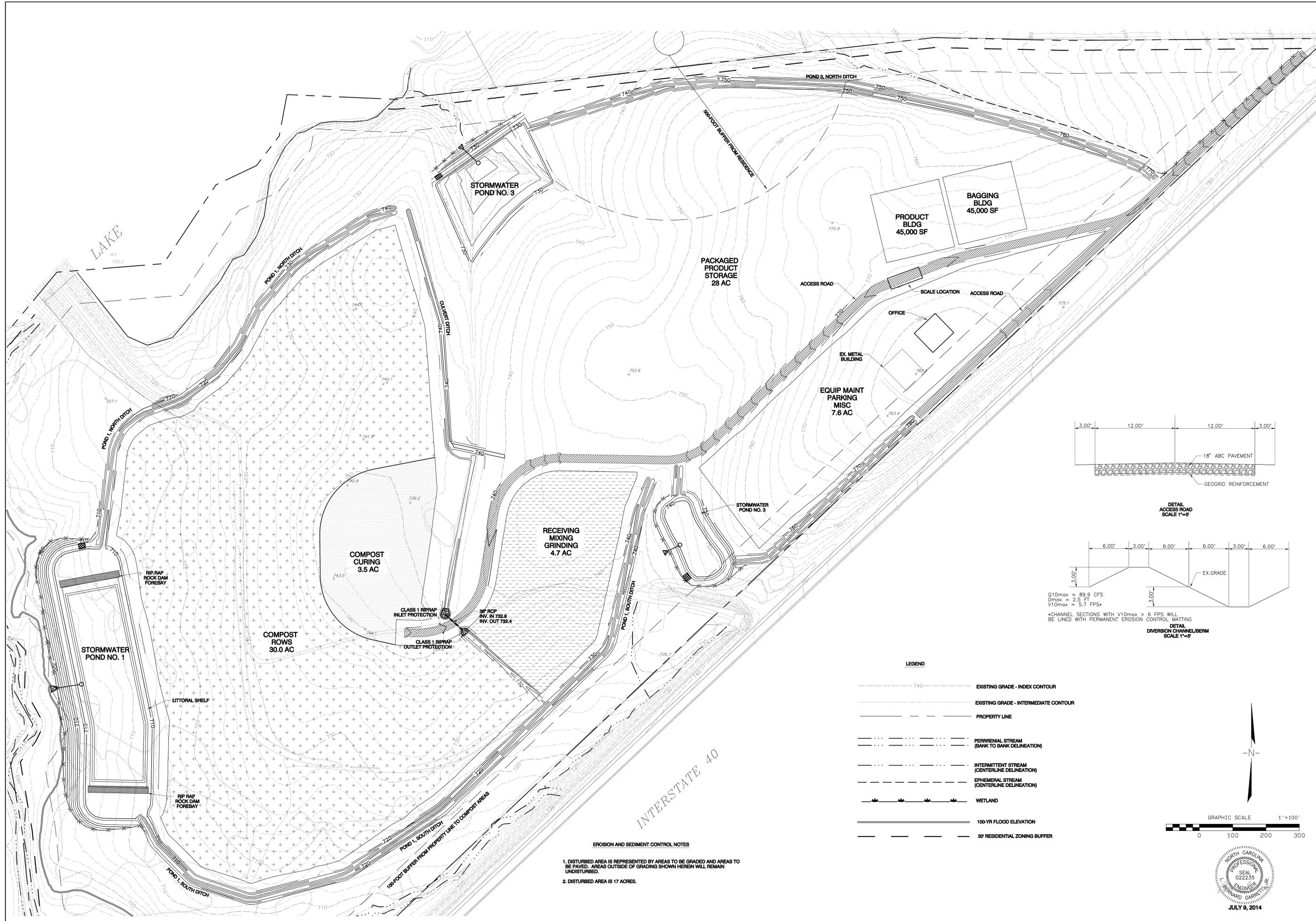
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**WALLACE FARM INC. TYPE 3 COMPOST FACILITY  
 DAVIE COUNTY NC**

**SITE PLAN - EXISTING SITE FEATURES**

JOB NUMBER  
 SHEET  
**2**

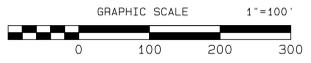


Q10max = 89.9 CFS  
 Dmax = 2.6 FT  
 V10max = 5.7 FPS

\*CHANNEL SECTIONS WITH V10max > 6 FPS WILL BE LINED WITH PERMANENT EROSION CONTROL MATTING

**LEGEND**

- 740 --- EXISTING GRADE - INDEX CONTOUR
- --- EXISTING GRADE - INTERMEDIATE CONTOUR
- --- PROPERTY LINE
- --- PERENNIAL STREAM (BANK TO BANK DELINEATION)
- --- INTERMITTENT STREAM (CENTERLINE DELINEATION)
- --- EPHEMERAL STREAM (CENTERLINE DELINEATION)
- --- WETLAND
- --- 100-YR FLOOD ELEVATION
- --- 30' RESIDENTIAL ZONING BUFFER



**EROSION AND SEDIMENT CONTROL NOTES**

1. DISTURBED AREA IS REPRESENTED BY AREAS TO BE GRADED AND AREAS TO BE PAVED. AREAS OUTSIDE OF GRADING SHOWN HEREIN WILL REMAIN UNDISTURBED.
2. DISTURBED AREA IS 17 ACRES.



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**WALLACE FARM INC. TYPE 3 COMPOST FACILITY  
 DAVIE COUNTY NC**

**SITE PLAN - PROPOSED SITE FEATURES**

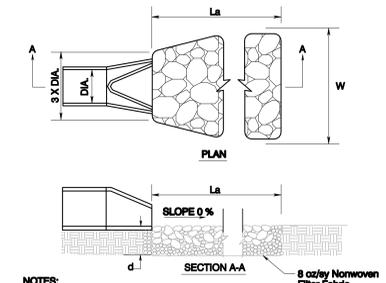
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**3**

Stabilization for this project shall comply with the time frame guidelines as specified by the NCG-010000 general construction permit effective August 3, 2011 issued by the North Carolina Department of Environment and Natural Resources Division of Water Quality. Temporary or permanent ground cover stabilization shall occur within 7 calendar days from the last land-disturbing activity.

The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone, shall be as stated below. During periods of overlapping dates, the kind of seed to be used shall be determined. All rates are in pounds per acre.

March 1 - August 31	September 1 - February 28
75# Tall Fescue	75# Tall Fescue
25# Bermudagrass (hulled)	35# Bermudagrass (unhulled)
600# Fertilizer	600# Fertilizer
4000# Limestone	4000# Limestone

**SEEDING SCHEDULE** 5  
NOT TO SCALE 6

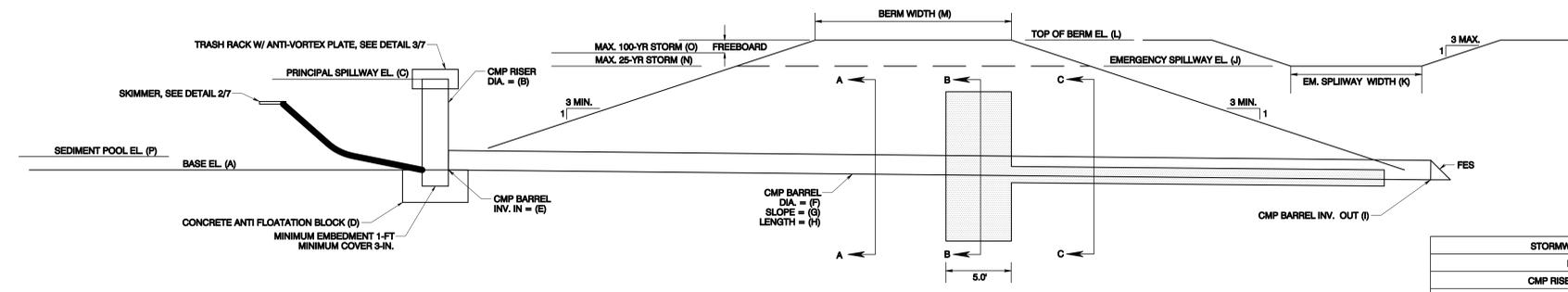


NOTES:  
1. La is the length of the riprap apron.  
2. d = 1.5 times the maximum stone diameter but not less than 6".  
3. A filter blanket (filter fabric) should be installed between the riprap and soil foundation.

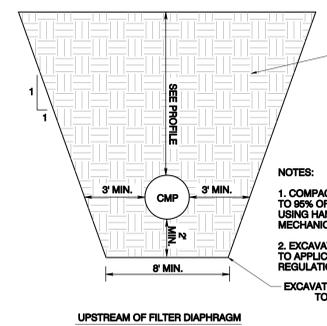
**ENERGY DISSIPATOR SCHEDULE**

ENERGY DISSIPATOR ID	PIPE DIAMETER (in)	d <sub>50</sub>	d <sub>max</sub>	APRON THICKNESS (ft)	La (ft)	WIDTH (ft)	SD <sub>o</sub> (ft)	RIPRAP SIZE
POND 1 OUTLET	24	0.6	1.4	2.2	12	18	6	CLASS 1
POND 2 OUTLET	24	0.3	0.5	1.5	10	16	6	CLASS A
POND 3 OUTLET	36	0.6	1.4	2.2	20	29	9	CLASS 1

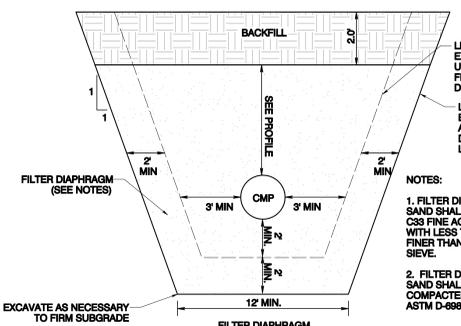
**ENERGY DISSIPATER** 6  
N.T.S.



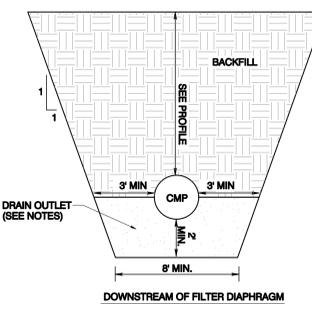
**SEDIMENTATION POND DETAIL (TYP)** 1  
N.T.S. 6



**SECTION A** 6  
N.T.S.



**SECTION B** 6  
N.T.S.



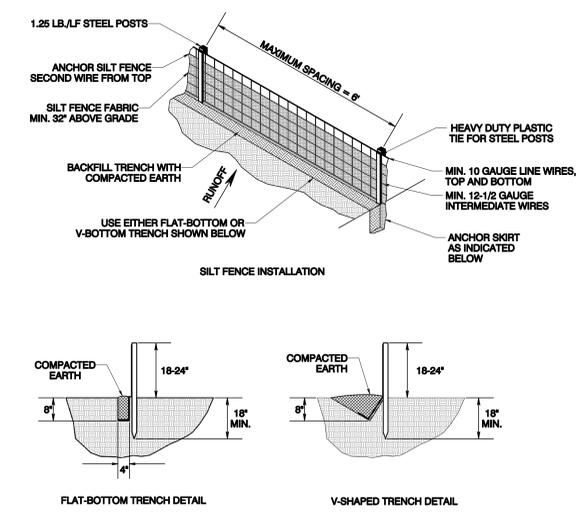
**SECTION C** 6  
N.T.S.

**POND DESIGN**

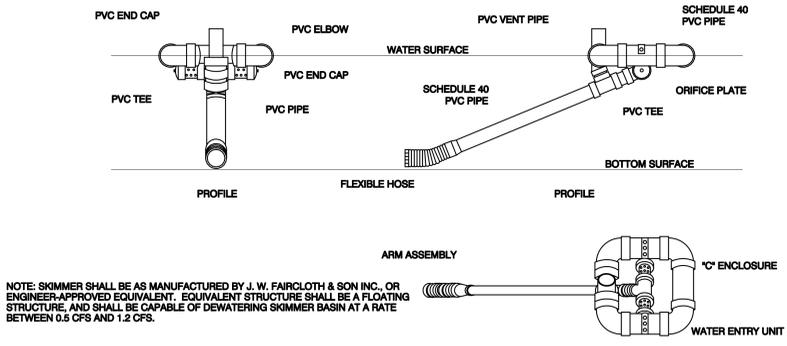
	NO. 1	NO. 2	NO. 3
STORMWATER POND			
BASE EL. (A)	709.0 FT	740.0 FT	724.0 FT
CMP RISER DIA. = (B)	48 IN	48 IN	72 IN
PRINCIPAL SPILLWAY EL. (C)	711.0 FT	743.0 FT	729.0 FT
CONCRETE ANTI FLOATION BLOCK (D)	8 FT X 8 FT X 2 FT	8 FT X 8 FT X 2 FT	10 FT X 10 FT X 2 FT
CMP BARREL INV. IN = (E)	709.0 FT	740.0 FT	724.0 FT
CMP BARREL DIA. = (F)	24 IN	24 IN	36 IN
CMP BARREL SLOPE = (G)	15.7%	0.26%	1.0%
CMP BARREL LENGTH = (H)	70.0 FT	38.0 FT	66.0 FT
CMP BARREL INV. OUT (I)	696.0 FT	739.9 FT	723.3 FT
EMERGENCY SPILLWAY EL. (J)	712.0 FT	744.0 FT	731.5 FT
EM. SPILLWAY WIDTH (K)	20 FT	20 FT	20 FT
TOP OF BERM EL. (L)	713.0 FT	745.0 FT	732.0 FT
BERM WIDTH (M)	10.0 FT	10.0 FT	10.0 FT
MAX. 25-YR STORM (N)	711.78 FT	743.25 FT	729.93 FT
MAX. 100-YR STORM (O)	712.17 FT	743.56 FT	730.62 FT
SEDIMENT POOL EL. (P)	710 FT	741 FT	725 FT

**POND PERFORMANCE**

STORMWATER POND	NO. 1	NO. 2	NO. 3
Q2-PRE	37.8 CFS	9.2 CFS	47.6 CFS
Q2-POST	1.38 CFS	1.27 CFS	2.16 CFS
Q10-PRE	74.2 CFS	17.9 CFS	93.8 CFS
Q10-POST	9.85 CFS	1.27 CFS	27.37 CFS

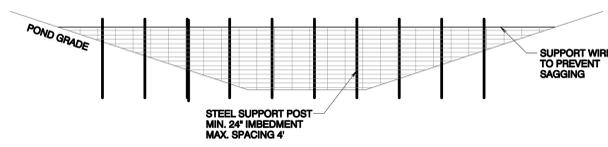
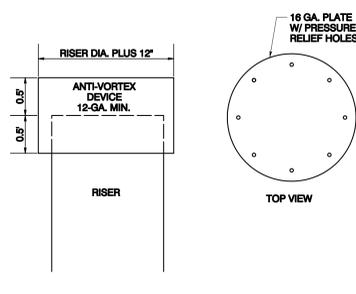


**SILT FENCE** 4  
N.T.S. 6



**SKIMMER** 2  
N.T.S. 6

**ANTI-VORTEX DEVICE** 3  
N.T.S. 6



**SEDIMENT POND BAFFLES** 7  
N.T.S. 6

- STEEL POSTS SHALL BE DRIVEN TO A DEPTH OF 24 INCHES, SPACED A MAXIMUM OF 4 FEET APART, AND INSTALLED UP THE SIDES OF THE POND TO LOCATION SHOWN ON PLANS.
- ADD A SUPPORT WIRE ACROSS THE TOP OF THE BAFFLE TO PREVENT SAGGING.
- WRAP POROUS MATERIAL (JUTE BACKED BY COIR MATERIAL) OVER TOP WIRE. POROUS MATERIAL SHALL HAVE 5% TO 10% OPENINGS IN THE WEAVE. ATTACH MATERIAL TO SUPPORT POSTS WITH ZIP TIES OR WIRE.
- MINIMUM BAFFLE HEIGHT IS 2 FEET ABOVE POND GRADE.



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**WALLACE FARM INC. TYPE 3 COMPOST FACILITY**  
**DAVIE COUNTY NC**

**DETAILS**

JOB NUMBER
SHEET
4

**NARRATIVE**

THE PURPOSE OF THIS PROJECT IS TO DEVELOP THE STORMWATER MANAGEMENT SYSTEM AND INFRASTRUCTURE FOR THE PROPOSED TYPE 3 COMPOSTING FACILITY. THE FACILITY WILL PROCESS VARIOUS TYPES OF FEEDSTOCKS, INCLUDING ANIMAL MANURES, YARD WASTE, WOOD WASTE, LAND CLEARING DEBRIS, WASTE WATER TREATMENT RESIDUALS, COTTON AND TOBACCO MATERIALS, FOOD AND/OR ANIMAL PROCESSING RESIDUALS, AND FOOD WASTE. ALL OF THE FEEDSTOCKS USED AT THE FACILITY ARE NON-HAZARDOUS. THESE OPERATIONS HELP EASE ENVIRONMENTAL AND ENERGY BURDENS ON THE STATE, AND PRODUCE USEFUL END-PRODUCTS, WHILE HELPING MEET THE STATES RECYCLING GOALS.

**EROSION & SEDIMENT CONTROL PLAN  
GENERALIZED SEQUENCE OF CONSTRUCTION**

1. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE WATERSHED MANGER, OBTAIN A LAND-DISTURBING PERMIT.
2. INSTALL SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
3. CALL FOR AN ONSITE INSPECTION BY THE WATERSHED MANGER TO OBTAIN A CERTIFICATE OF COMPLIANCE.
4. BEGIN CLEARING AND GRUBBING, MAINTAIN DEVICES AS NEEDED, ROUGH GRADE SITE.
5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL FOR AN INSPECTION BY THE WATERSHED MANGER.
8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
9. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WATERSHED MANGER. OBTAIN A CERTIFICATE OF COMPLETION.

**1. Construction Site Pollutants**

Permittee must manage activities on the site such that water quality standards are not violated from site activities or allowed discharges. In addition to stream pollution from sediment discharge, other activities on construction and development sites can result in pollutants reaching the state's waters. EPA has prepared guidance documents that provide best management practices that address many activities. Refer to NPDES General Permit - NCG 010000 for additional detail.

**2. Ground Stabilization**

a) Soil stabilization shall be achieved on any area of a site where land-disturbing activities have temporarily or permanently ceased according to the following schedule:

- i) All perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1) shall be provided temporary or permanent stabilization with ground cover as soon as practicable but in any event within 7 calendar days from the last land-disturbing activity.
- ii) All other disturbed areas shall be provided temporary or permanent stabilization with ground cover as soon as practicable but in any event within 14 calendar days from the last land-disturbing activity.
- b) Conditions - In meeting the stabilization requirements above, the following conditions or exemptions shall apply:
  - i) Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impracticable.
  - ii) All slopes 50' in length or greater shall apply the ground cover within 7 days except when the slope is flatter than 4: 1. Slopes less than 50' shall apply ground cover within 14 days except when slopes are steeper than 3: 1, the 7 day requirement applies.
  - iii) Any sloped area flatter than 4: 1 shall be exempt from the 7-day ground cover requirement.
  - iv) Slopes 10' or less in length shall be exempt from the 7-day ground cover requirement except when the slope is steeper than 2: 1.
  - v) Although stabilization is usually specified as ground cover, other methods, such as chemical stabilization, may be allowed on a case-by-case basis.
  - vi) For portions of projects within the Sediment Control Commission-defined "High Quality Water Zone (ISA NCAC 04A. 0105), stabilization with ground cover shall be achieved as soon as practicable but in any event on all areas of the site within 7 calendar days from the last land disturbing act.
  - vii) Portions of a site that are lower in elevation than adjacent discharge locations and are not expected to discharge during construction may be exempt from the temporary ground cover requirements if identified on the approved E&S Plan or added by the permitting authority.

The Division of Water Quality staff may waive the requirement for a written report on a case-by-case basis.

g) Records of inspections made during the previous 30 days shall remain on the site and available for agency inspectors at all times during normal working hours, unless the Division of Water Quality provides a site-specific exemption based on unique site conditions that make this requirement not practical. Older records must be maintained for a period of three years after project completion and made available upon request. The records must provide the details of each inspection including observations, and actions taken in accordance with this permit. The permittee shall record the required rainfall and monitoring observations on the Inspection Record form provided by the Division or a similar inspection form that is inclusive of all of the elements contained in the Division's form. Use of electronically-available records, in lieu of the required paper copies for inspection will be allowed if shown to provide equal access and utility as the hard-copy records.

h) Inspection records must include, at a minimum, the following:

- i) Control Measure Inspections: Inspection records must include at a minimum: 1) identification of the measures inspected, 2) date and time of the inspection, 3) name of the person performing the inspection, 4) indication of whether the measures were operating properly, 5) description of maintenance needs for the measure, 6) corrective actions taken 7) date of actions taken, as well as the date and amounts of rainfall received.
- ii) Stormwater Discharge Inspections: Inspection records must include at a minimum: 1) identification of the discharge outfall inspected, 2) date and time of the inspection, 3) name of the person performing the inspection, 4) evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5) indication of visible sediment leaving the site, 6) actions taken to correct/prevent sedimentation and 7) date of actions taken.
- iii) Visible Sedimentation Found Outside the Site Limits: Inspection records must include: 1) an explanation as to the actions taken to control future releases, 2) actions taken to clean up or stabilize the sediment that has left the site limits and 3) the date of actions taken.
- iv) Visible Sedimentation Found in Streams or Wetlands: All inspections should include valuation of streams or wetlands onsite or offsite (where accessible) to determine if visible sedimentation has occurred.
- i) Visible Stream Turbidity - If the discharge from a site results in an increase in visible stream turbidity, inspection records must record that evidence, and actions taken to reduce sediment contributions. Sites discharging to streams named on the state's 303(d) list as impaired for sediment-related causes may be required to perform additional monitoring, inspections or application of more-stringent management practices if it is determined that the additional requirements are needed to assure compliance with the federal or state impaired-waters conditions. If a discharge covered by this permit enters a stream segment that is listed on the Impaired Stream List for sediment-related causes, and a Total Maximum Daily Load (TMDL) has been prepared for those pollutants, the permittee must implement measures to ensure that the discharge of pollutants from the site is consistent with the assumptions and meets the requirements of the approved TMDL.

**3. Self Inspection and Reporting Requirements**

Minimum self inspection and reporting requirements are as follows unless otherwise approved in writing by the Division of Water Quality.

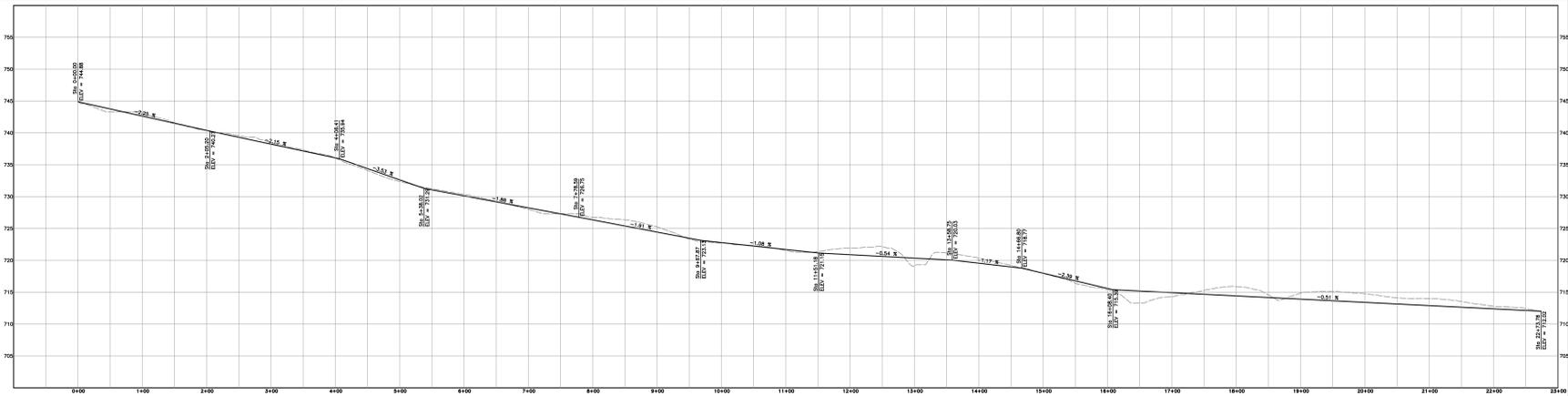
- a) A rain gauge shall be maintained in good working order on the site unless another rain monitoring device has been approved by the Division of Water Quality.
- b) A written record of the daily rainfall amounts shall be retained and all records shall be made available to Division of Water Quality or authorized agent upon request. If no individual day rainfall information is available, the cumulative rain measurement for those unattended days will determine if a site inspection is needed. (Note: if no rainfall occurred, the permittee must record "zero").
- c) Erosion and sedimentation control measures shall be inspected to ensure that they are operating correctly. Inspection records must be maintained for each inspection event and for each measure. At a minimum, inspection of measures must occur at the frequency indicated below:
  - i) All erosion and sedimentation control measures must be inspected by or under the direction of the permittee at least once every seven calendar days, and
  - ii) All erosion and sediment control measures must be inspected by or under the direction of the permittee within 24 hours after any storm event of greater than 0.50 inches of rain per 24 hour period.
- d) Once land disturbance has begun on the site, stormwater runoff discharge outfalls shall be inspected by observation for erosion, sedimentation and other storm water discharge characteristics such as clarity, floating solids, and oil sheens. Inspections of the outfalls shall be made at least once every seven calendar days and within 24 hours after any storm event of greater than 0.50 inches of rain per 24 hour period.
- e) Inspections are only required to be made during normal business hours. When adverse weather conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection can be delayed until it is deemed safe to perform these duties. (Times when inspections were delayed because of safety issues should be noted in the Inspection Record.) If the inspection cannot be done on that day, it must be completed on the following business day.
- f) Twenty-four Hour Reporting for visible sediment deposition
  - i) The permittee shall report to the Division of Water Quality central office or the appropriate regional office any visible sediment being deposited in any stream or wetland or any noncompliance which may endanger health or the environment. (See Section VIII of this permit for contact information.) Any information shall be provided orally or electronically within 24 hours from the time the permittee became aware of the circumstances.
  - ii) A written submission shall be provided to the appropriate regional office of the Division of Water Quality within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the sediment deposition and actions taken to address the cause of the deposition.

**1. Construction Site Pollutants**

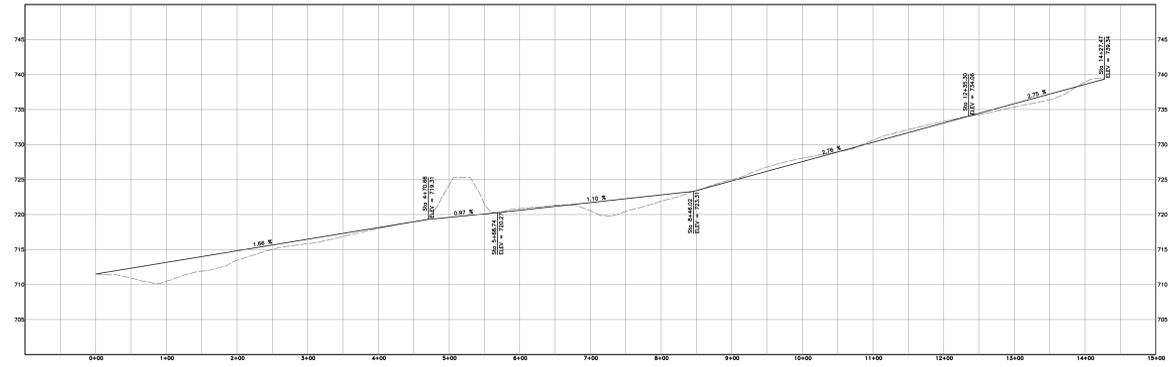
Permittee must manage activities on the site such that water quality standards are not violated from site activities or allowed discharges. In addition to stream pollution from sediment discharge, other activities on construction and development sites can result in pollutants reaching the state's waters. EPA has prepared guidance documents that provide best management practices that address many activities. Refer to NPDES General Permit - NCG 010000 for additional detail.

**2. Ground Stabilization**

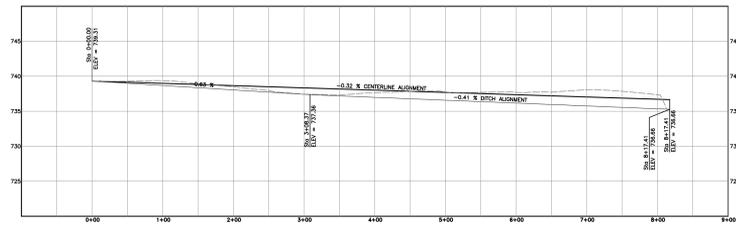
- a) Soil stabilization shall be achieved on any area of a site where land-disturbing activities have temporarily or permanently ceased according to the following schedule:
  - i) All perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1) shall be provided temporary or permanent stabilization with ground cover as soon as practicable but in any event within 7 calendar days from the last land-disturbing activity.
  - ii) All other disturbed areas shall be provided temporary or permanent stabilization with ground cover as soon as practicable but in any event within 14 calendar days from the last land-disturbing activity.
- b) Conditions - In meeting the stabilization requirements above, the following conditions or exemptions shall apply:
  - i) Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impracticable.
  - ii) All slopes 50' in length or greater shall apply the ground cover within 7 days except when the slope is flatter than 4: 1. Slopes less than 50' shall apply ground cover within 14 days except when slopes are steeper than 3: 1, the 7 day requirement applies.
  - iii) Any sloped area flatter than 4: 1 shall be exempt from the 7-day ground cover requirement.
  - iv) Slopes 10' or less in length shall be exempt from the 7-day ground cover requirement except when the slope is steeper than 2: 1.
  - v) Although stabilization is usually specified as ground cover, other methods, such as chemical stabilization, may be allowed on a case-by-case basis.
  - vi) For portions of projects within the Sediment Control Commission-defined "High Quality Water Zone (ISA NCAC 04A. 0105), stabilization with ground cover shall be achieved as soon as practicable but in any event on all areas of the site within 7 calendar days from the last land disturbing act.
  - vii) Portions of a site that are lower in elevation than adjacent discharge locations and are not expected to discharge during construction may be exempt from the temporary ground cover requirements if identified on the approved E&S Plan or added by the permitting authority.



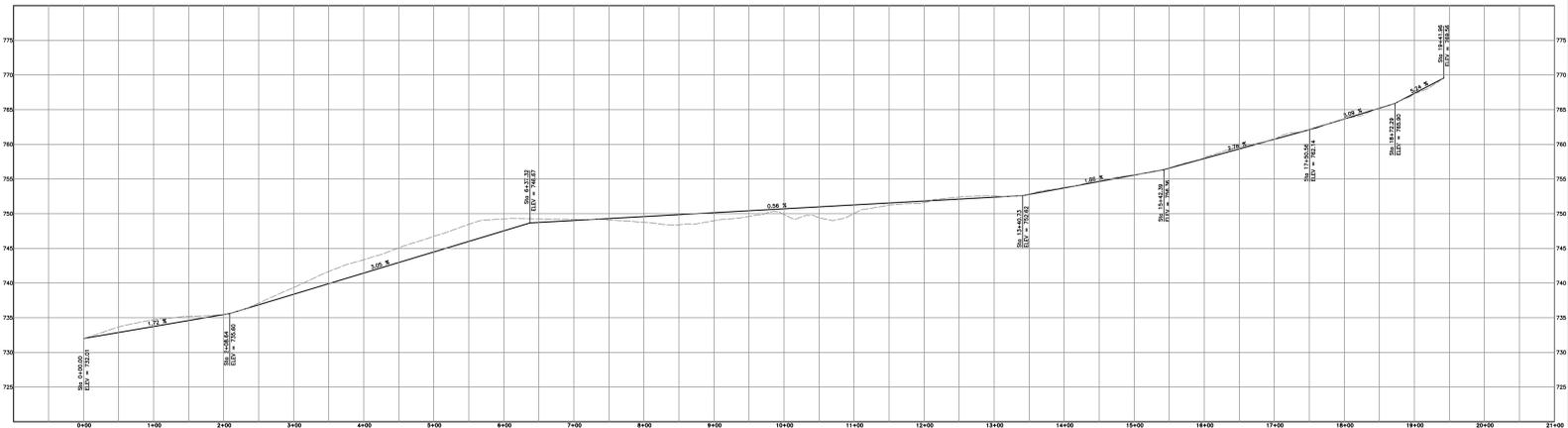
**POND 1, SOUTH DITCH PROFILE**



**POND 1, NORTH DITCH PROFILE**



**CULVERT DITCH PROFILE**



**POND 3, NORTH DITCH PROFILE**



Path: V:\Wallace Farm\Draw Co\Site Plan\Site Plan.dwg Plot Date/Time: Wed Jul 9 2014 14:22:20

REVISION	DATE
1)	
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4)	

**GARRETT & MOORE**  
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**WALLACE FARM INC. TYPE 3 COMPOST FACILITY**  
DAVIE COUNTY NC

**DETAILS**

**JOB NUMBER**  
**SHEET**  
**5**