

**CHATHAM COUNTY  
MAJOR SUBDIVISION  
REVIEW CHECKLIST**

Subdivision Name Harrison Pond, LLC

Review For: [ ] Sketch

[X] Prelim

[ ] Final

Attach all supporting documentation regarding these approvals. If approvals are still pending, attach applications for approval.

SKETCH DESIGN REVIEW	APPROVAL DATE
[ ] 25 Copies of Plat with topo along with one (1) 8-1/2 x 11 copy	-----
[ ] Application w/Complete Adjacent Owner Addresses	-----
[ ] Soil Scientist Report and soil map	-----
{ } <b>1 electronic copy of all items above (see Digital Document Requirements)</b>	
PRELIMINARY PLAT REVIEW	
[ X ] 25 Copies of Plat along with one (1) 8-1/2 x 11 copy	.....
[ X ] Application w/ Complete Adjacent Owner Addresses	.....
[ X ] Detailed Soils Map and Letter of explanation or D.E.M. approval	1/10/07
{see Requirements for soil scientist report}	
[ X ] NCDOT Approval (if public roads)	1/11/07
[ X ] DOT Comm. Driveway Permit	10/30/06
[ X ] Erosion Control Plan Approval (if new roads or one acre disturbed)	1/12/07
[ ] U.S. Army Corps of Engineers Permit (if appl) <b>N/A; see letter</b>	1/6/06
[ X ] Road Name Request Form	1/4/07
[ X ] County Public Water Approval (if applicable)	1/4/07
[ X ] State Public Water Approval (if applicable)	1/4/07
[ X ] Chatham Co. Schools' Road Comments (if new roads)	1/11/07
[ ] Stormwater Management Plan Approval (if appl) <b>N/A</b>	___/___/___
[ ] Economic & Environmental Impact Study (if appl) <b>N/A</b>	___/___/___
[ ] Water / Sewer Impact Statement (if appl) <b>N/A</b>	___/___/___
{ } <b>1 electronic copy of all items above (see Digital Document Requirements)</b>	
FINAL PLAT REVIEW	
[ ] 25 Copies of Plat	-----
[ ] Application	.....
{ } <b>1 electronic copy of all items above (see Digital Document Requirements)</b>	___/___/___
[ ] <b>Chatham County Environmental Health Division</b> septic improvement permits or NCDWQ septic permits for each lot.	___/___/___
[ ] Road Completion Certificate or Financial Guarantee	___/___/___
[ ] Utilities Completion Cert. or Financial Guarantee	___/___/___

Comment \_\_\_\_\_

Date Complete Application Rec'd: \_\_\_/\_\_\_/\_\_\_ By: \_\_\_\_\_

Chatham County Planning Department  
P.O. Box 54  
Pittsboro, NC 27312  
Tel: (919) 542-8204  
Fax: (919) 542-0527

Type of Review  
 Sketch  
 Preliminary  
 Final

### MAJOR SUBDIVISION APPLICATION

Name of Subdivision: Harrison Pond  
Subdivision Applicant:

Harrison Pond, LLC  
Subdivision Owner:

Name: Harrison Pond, LLC  
c/o William J. Brinn, Jr.  
Address: Post Office Box 607  
Pittsboro, NC 27312

Name: Harrison Pond, LLC  
Address: P. O. Box 607  
Pittsboro, NC 27312

Phone:(W) (919) 880-9542  
Phone:(H) \_\_\_\_\_ Fax: \_\_\_\_\_  
E-Mail: joebrinn@nc.rr.com  
Township: Baldwin Zoning: RA-40  
Flood Map #9754, 9755, 9744 Zone: X  
Watershed WS-IV-PA  
River Corridor

Phone:(W) (919) 880-9542  
Phone:(H) \_\_\_\_\_ Fax: \_\_\_\_\_  
E-Mail: joebrinn@nc.rr.com  
P.I.N. # 9754-09-9218  
Parcel # 1907  
Existing Access Road: S.R. 1532

Total Acreage: 74.242 acres

Total # of Lots: 42 Min. Lot Size: .93 acres

Ph. I Acreage \_\_\_\_\_

Ph. I # of lots 42 Max. Lot Size: 3.57 acres

Ph. II Acreage \_\_\_\_\_

Ph. II # of lots \_\_\_\_\_ Avg. Lot Size: 1.5 acres

Ph. III Acreage \_\_\_\_\_

Ph. III # of lots \_\_\_\_\_

Type of new road:  Private/Length \_\_\_\_\_  Public/Length 4,420 linear feet

**Road Surface:**

paved  
 gravel

**Water System:**

individual wells  
 community wells  
 public system

name Chatham County  
name \_\_\_\_\_

**Sewer Sytem:**

septic systems  
 community system  
 public system

List other facilities: commercial, recreation, etc., and the approximate acreage or square footage:

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William J. Brinn Date 1/12/07  
Signature of Applicant

William J. Brinn Date 1/12/07  
Signature of Owner

**For Office Use Only:**

Notes: \_\_\_\_\_

Approved by County Commissioners: \_\_\_\_\_

Sketch \_\_\_\_\_  
Preliminary \_\_\_\_\_

Final \_\_\_\_\_

Payment: Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Amount: \$ \_\_\_\_\_

HARRISON POND ADJOINING LANDOWNERS

Chatham County Board of Education  
Post Office Box 128  
Pittsboro, NC 27312  
Parcel No. 70043 and 70154

Mr. William P. Cleaver  
Mrs. Julia M. Cleaver  
295 River Forest Road  
Pittsboro, NC 27312  
Parcel No. 1166

Ms. Linda F. Rothman  
11 Wilder Ridge  
Chapel Hill, NC 27517-7603  
Parcel No. 1162

Ms. Virginia M. Carr  
100 Hunter Place  
Carrboro, NC 27510  
Parcel No. 1167

DeJesus Augustin Lopez  
Leticia Ramos Mateo  
371 River Forest Road  
Pittsboro, NC 27312  
Parcel No. 1167

Ms. Phyllis D. Bazzari  
391 River Forest Road  
Pittsboro, NC 27312  
Parcel No. 1170

Ms. Patricia A. Lange  
7925 Sligo Creek Parkway #A  
Takoma Park, MD 20912-6303  
Parcel No. 1160

Ms. Linda M. Stainback  
457 River Forest Road  
Pittsboro, NC 27312  
Parcel No. 1168

Mr. Michael O. Phillips  
Ms. Carole Lee Bresky  
483 River Forest Road  
Pittsboro, NC 27312  
Parcel No. 61679

Ms. Roberta E. Snyder  
Mr. Fred C. Kirkman  
517 River Forest Road  
Pittsboro, NC 27312  
Parcel No. 1169

Mr. Wallace Lee Rowland  
Mrs. Betty Hoey Rowland & Jeffrey Ivor Rowland  
549 River Forest Road  
Pittsboro, NC 27312  
Parcel No. 1163

Ms. Connie Dianne Hall  
567 River Forest Road  
Pittsboro, NC 27312  
Parcel No. 1151

Mr. Craig A. Greiner  
Mrs. Renae D. Greiner  
567 River Forest Road  
Pittsboro, NC 27312  
Parcel No. 1151

Mr. Mark D. Kellam  
709 River Forest Road  
Pittsboro, NC 27312  
Parcel No. 1620

Ms. Margrue M. Booker  
4019 Oak Hill Road  
Chapel Hill, NC 27514  
Parcel No. 65703

Joel T. Friedman  
Nannette C. Friedman  
25 Hawfields Drive  
Pittsboro, NC 27312  
Parcel No. 65703

Mr. Kenneth Mann, Jr.  
112 Hawfields Drive  
Pittsboro, NC 27312  
Parcel No. 66183

Mr. Ronald C. Thayer  
Mrs. Nora K. Thayer  
174 Hawfields Drive  
Pittsboro, NC 27312  
Parcel No. 68358

Ms. Teri Radmer Smith  
104 S. Tamilynn Circle  
Cary, NC 27513  
Parcel No. 69900

Mr. Michael Ohagerty  
Ms. Shannon Morris  
24 Pine Ridge Road  
Pittsboro, NC 27312  
Parcel No. 69901

Mr. Frank Jones  
Mrs. Carolyn F. Jones  
46 Pine Ridge Road  
Pittsboro, NC 27312  
Parcel No. 69902

Ms. Janel D. Hopkins  
Mr. Seth M. Hopkins  
106 Pine Ridge Road  
Pittsboro, NC 27312  
Parcel No. 69903

Mrs. H.H. Mann  
249 Herbert Mann Road  
Pittsboro, NC 27312  
Parcel No. 1544

Mr. Mark Timothy Elliott  
Mrs. Betsey B. Elliott  
c/o Northen Blue  
P. O. Box 2208  
Chapel Hill, NC 27515  
Parcel No. 66555

Mr. Robert Tate Hamlet, Jr.  
Mrs. Teresa Hamlet  
2673 Lamont Norwood Road  
Pittsboro, NC 27312  
Parcel No. 66555

Mrs. Judith H. Deal  
Mr. Stephen Deal  
2406 Woodruff Avenue  
High Point, NC 27265  
Parcel No. 66556

Mr. Michael Alan Shachtman  
Mrs. Susanne Coffey Shachtman  
64 Harrison Court  
Pittsboro, NC 27312  
Parcel No. 79339

Musigny Inc.  
127 Araya Lane  
Chapel Hill, NC 27516  
Parcel No. 79340

Mr. Robert C. Poitras  
Mrs. Taylor T. Poitras  
82 Harrison Court  
Pittsboro, NC 27312  
Parcel No. 79341

Mr. David Snyder  
Mrs. Andrea Snyder  
104 Harrison Court  
Pittsboro, NC 27312  
Parcel No. 79342

Mr. Richard V. Quimby  
Ms. Catherine G. Trott  
106 Harrison Court  
Pittsboro, NC 27312  
Parcel No. 79343

Ms. Kelley Lane  
Mr. Michael Ball  
124 Harrison Court  
Pittsboro, NC 27312  
Parcel No. 79344

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24 Pine Ridge Road  
Pittsboro, NC 27312  
Parcel No. 69901

*JDG Consultants*  
John D. Gray  
123 Cub Creek Ext  
Chapel Hill, NC 27517  
919-929-4105 • 919-815-0698

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January 10, 2007

To Whom It May Concern:

Re: Septic Site Delineation, Preparation and Approval for Harrison Pond Subdivision

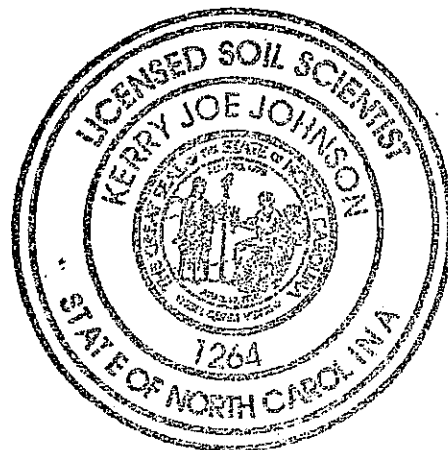
As a part of the process of permit procurement, site investigations were performed on each lot within the subdivision in order to identify and document individual septic sites. These investigations were performed using hand augers and documented using handheld GPS equipment. From this site investigation, maps were prepared as an aid for evaluation to the Chatham County Health Department. Upon evaluation of these lots by the Health Department, approvals were given for all lots evaluated with permits for the sites now pending.

I hope that this information will help meet the needs of your planning goals. Should you have any questions concerning the details of the evaluation or this report please feel free to contact us at any time.

Sincerely,

*Kerry Joe Johnson* LSS RS  
Kerry Joe Johnson, LSS RS

*John D. Gray, R.S.*

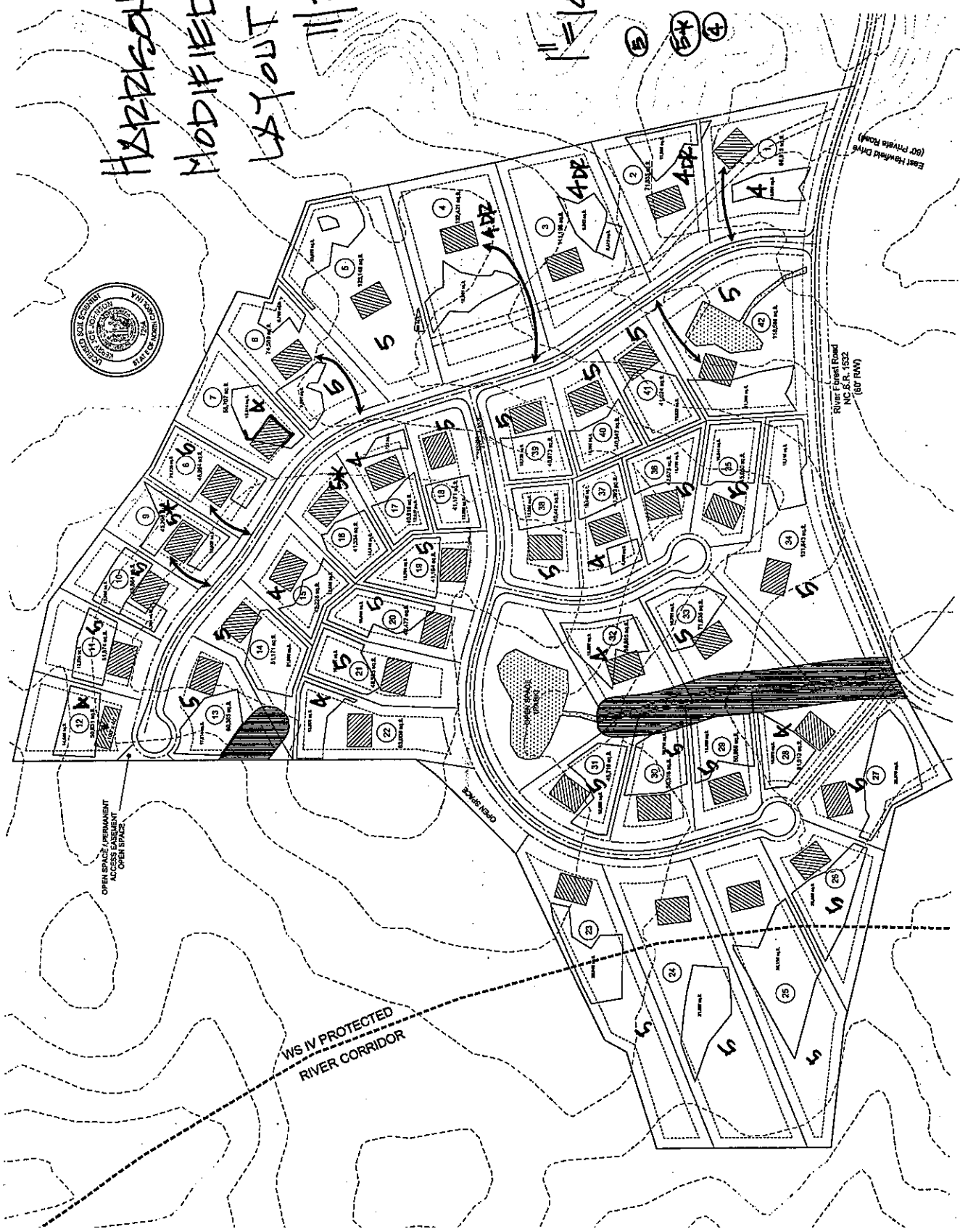


HARRIS POND  
MODIFIED

LAYOUT  
30/00

100'

28 5 BP  
2 5 BP OPTIMAL  
12 4 BP



OPEN SPACE / PERMANENT  
ACCESS easement  
OPEN SPACE

WS IV PROTECTED  
RIVER CORRIDOR

River Front Road  
NC S.R. 102  
(60' ROW)

East Hemlock Drive  
(60' Private Road)



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

MICHAEL F. EASLEY,  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

January 11, 2007

Chatham County

**Subject: Subdivision - Plan Review - Harrison Pond Subdivision off of SR 1532**

CE Group, Inc  
Mike Zaccardo, PE  
11000 Regency Parkway  
Suite 410  
Cary, NC 27511

Dear Mr. Zaccardo:

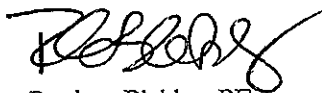
The N. C. Department of Transportation, Division of Highways has reviewed the construction plans as submitted to this office and approval is granted subject to the following stipulations and recommendations:

1. All Construction is to be in accordance with the details and changes in red as shown on the plans.
2. A driveway permit #19.686 has been previously issued for the entrance onto SR 1532.
3. The entire right of way is to be cleared and grubbed throughout the whole phase of the project. Please be aware that the areas within the sight distance quadrants are to be treated as right of way.
4. All soil areas within the proposed right of way and any other soil areas disturbed during construction shall be seeded and mulched immediately upon completion of roadway construction. The seeding shall be done as outlined in the seeding specification attachment.
5. The crossline drainage is approved as proposed on the construction plans. If, however field conditions dictate any changes these shall be made. If any of the property owners desire to pipe their ditches within the proposed N C DOT right of way, please advise them that this work should conform to NC DOT specifications for this type of work (see attached). If any ditches are piped and not done to the NC DOT specifications, this could result in the road not being accepted for addition to the state maintained system of roads. Any ditches piped prior to addition to the state maintained system are subject to an encroachment agreement, as are utility companies, when the road is added.
6. The typicals as shown in the plans per redlines are approved. Please note the change in the pavement radius for the offset cul-de-sac from 35' to 40'.
7. The Division of Highways will only allow mailboxes, with non-rigid type post, such as 4" x 4" wooden or small diameter metal type on new additions. Brick columns or mailboxes on rigid stands such as block, stone or any other type felt to be a traffic hazard will not be allowed within the right of way. This policy applies to all roads being considered for addition to the State Maintained System.

8. An erosion control plan shall require approval from Chatham County. The developer should forward this plan to Mr. Jim Willis, Erosion and Sediment Control Officer, 80 East, P.O. Box 130, Pittsboro, N.C. 27312, phone (919) 545-8343 for his review and approval.
9. As this subdivision is proposed to be public and is likely to be requested to be added to the state maintained system of roads, the developer will be responsible for providing a PE Certification, (See Attached) and testing results for base and asphalt density stating that the streets have been built in accordance with the most current "Subdivision Roads: Minimum Construction Standards" manual and with the attached approved plans. Please be advised that this PE Certification does not approve the road for addition to the State Highway System for maintenance. When the proper home-density is achieved and roads have been satisfactorily maintained, the developer or property owners must submit Form SR-1, Petition for Road Addition (copy attached to this correspondence), and four (4) copies of the recorded plat to request that the road or roads be added to the State Highway system. Any maintenance problems found when the road is requested to be added must be repaired by the developer prior to the road becoming state maintained. As stated in GS 136-102.6, final acceptance by the Division of Highways of the public streets and placing them on the State highway system for maintenance shall be conclusive proof that the streets have been constructed according to the minimum standards of the board of Transportation.
10. The developer shall comply with all applicable local, state, and federal environmental regulations, and shall obtain all necessary local, state, and federal environmental permits, including, but not limited to, those related to sediment control, stormwater, wetlands, streams, endangered species, and historical sites.
11. A properly completed Verification of Compliance with the Department of Environment and Natural Resources (DENR)(page 35, attached) must be submitted prior to the road(s) being considered for addition to the NCDOT System.
12. In preparing the final plat for certification by this office and subsequent recording, the following information will be incorporated
  - A. The sight distance quadrants at the intersections shall be shown either as a public easement or as the property line.
  - B. Public easements for drainage throughout the development.
  - C. All roads shall be shown as public and the right of way width shown.
13. If the plans of this subdivision change in a way that would cause a change in the classification of these roads from Local Residential to Residential Collector the developer will be responsible for upgrading roads to meet Residential Collector standards prior to addition the state maintenance system.
14. This approval does not approve the utilities within this subdivision. Any utilities shall be submitted for approval to this office via a properly executed Encroachment Agreement to be approved at the time the roads within the subdivision are petitioned to be added to the state system for maintenance. Please note that water valves should be located a minimum of 6' from edge of pavement, fire hydrants should be behind the right of way line and all service taps should be installed prior to paving.

If you have any further questions regarding this matter, please do not hesitate to call this office at (336) 629-1423.

Yours truly,



Reuben Blakley, PE  
District Engineer

REB/  
Attachments

cc: Mr. Tim Johnson, PE, Division Engineer  
File



North Carolina Department of Transportation  
Division of Highways  
Petition for Road Addition

**ROADWAY INFORMATION:** (Please Print/Type)

County: \_\_\_\_\_ Road Name: \_\_\_\_\_  
(Please list additional street names and lengths on the back of this form.)

Subdivision Name: \_\_\_\_\_ Length (miles): \_\_\_\_\_

Number of occupied homes having street frontage: \_\_\_\_\_ Located (miles): \_\_\_\_\_

miles N  S  E  W  of the intersection of Route \_\_\_\_\_ and Route \_\_\_\_\_  
(Check one) (SR, NC, US) (SR, NC, US)

We, the undersigned, being property owners and/or developers of \_\_\_\_\_ in \_\_\_\_\_ County, do hereby request the Division of Highways to add the above described road.

**CONTACT PERSON:** Name and Address of First Petitioner. (Please Print/Type)

Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Street Address: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

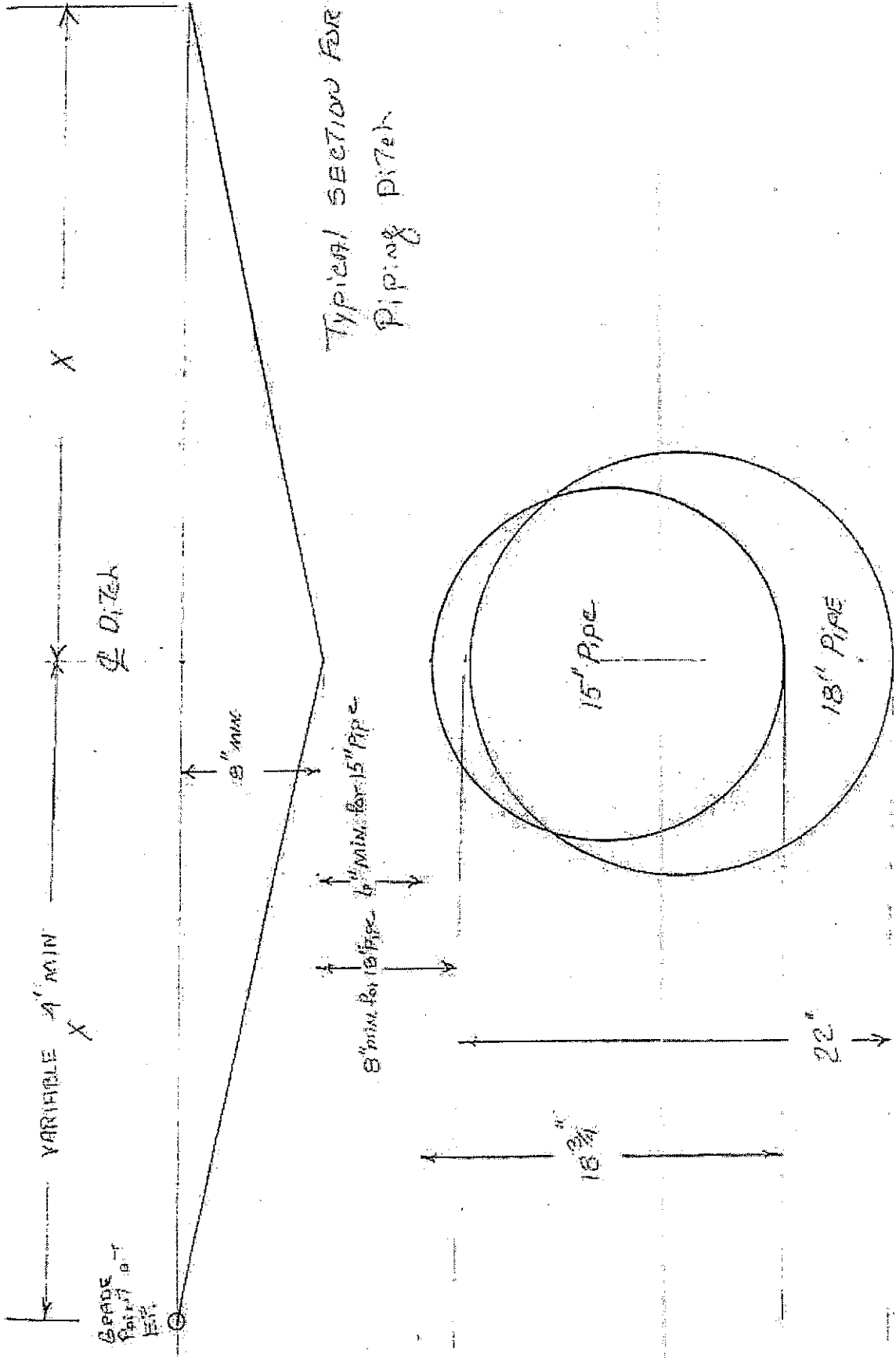
**PROPERTY OWNERS**

<u>Name</u>	<u>Mailing Address</u>	<u>Telephone</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**INSTRUCTIONS FOR COMPLETING PETITION:**







TYPICAL SECTION FOR  
Piping Pitch

POSSIBLE SUPPLIERS FOR  
GRATES AND FRAMES

SOUTHERN FOUNDRY  
P.O. BOX 186  
APEX, N.C. 27502  
(919) 362-7744

NORFOLK CAST, INC.  
P.O. BOX 328  
NORFOLK, VA. 23501

VULCAN FOUNDRY CORP.  
P.O. BOX 905  
DENHAM SPRINGS, LA.  
1(800)626-4653

US FOUNDRY  
8351 N. W. 93<sup>RD</sup> ST  
MEDLEY, FLA. 33166  
(305)885-0301 FAX (305) 844-3253

SUPER CAST, INC.  
1104 US HWY. 117 BYPASS, S.  
GOLDSBORO, N.C. 27530  
(919)736-9010 FAX (919)736-0290

BUNCH PATTERN WORKS, INC.  
P.O. BOX 267 HWY 308 N.  
LEWISTON-WOODVILLE, N.C. 27849

CAPITAL FOUNDRY OF VIRGINIA, INC.  
P.O. BOX 2212  
VIRGINIA BEACH, VIRGINIA 23450

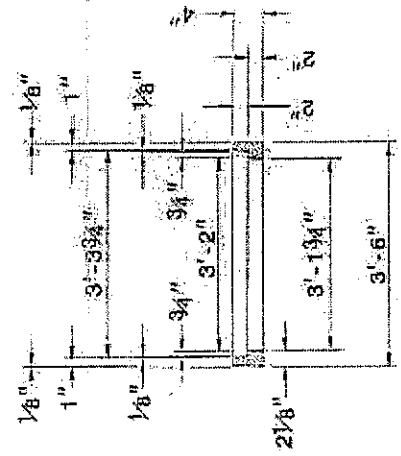
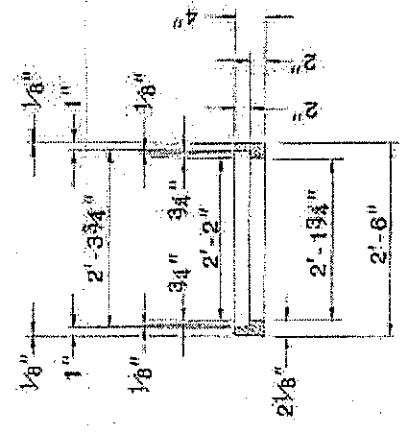
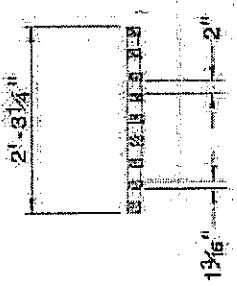
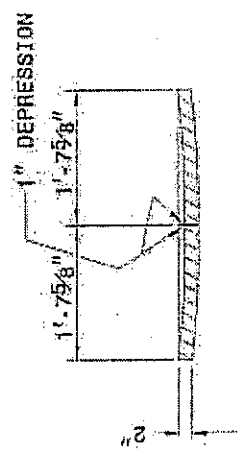
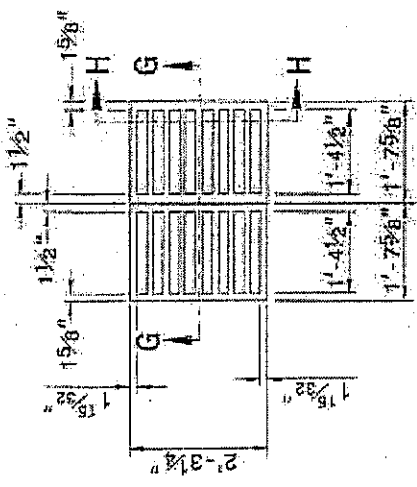
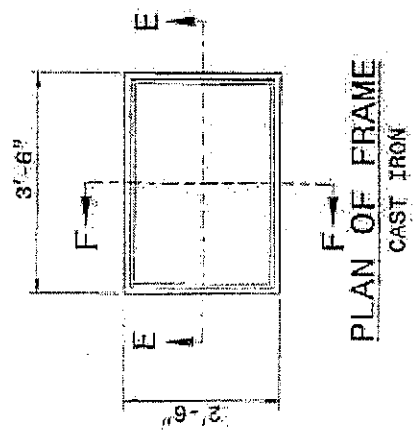
EMPORIA FOUNDRY, INC.  
620 REESE STREET  
EMPORIA, VIRGINIA 23847

ENNIS ENTERPRISES  
P.O. BOX 931  
WILMINGTON, N.C. 28402  
(910) 371-9323

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
**DROP INLET FRAME AND GRATES**  
 FOR USE WITH STD. DWG. S 840.14 AND 840.15

SHEET 1 OF 1  
**840.16**



STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

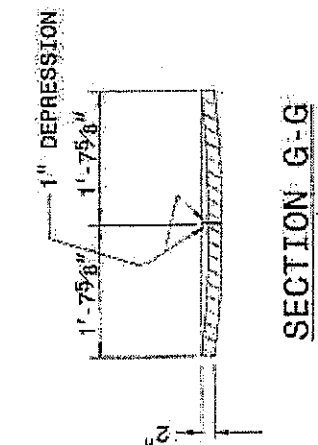
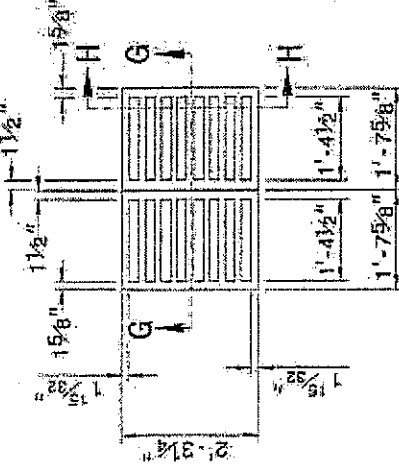
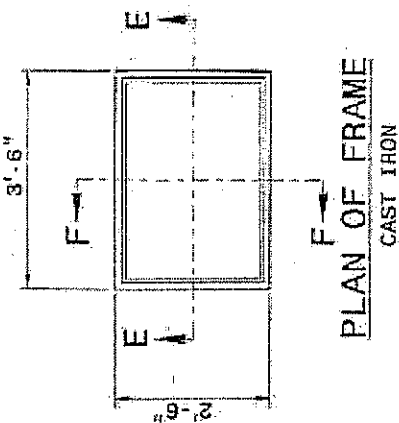
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SHEET 1 OF 1  
**840.16**

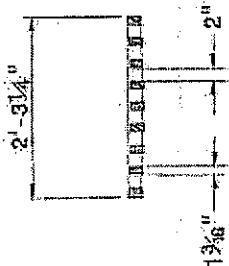
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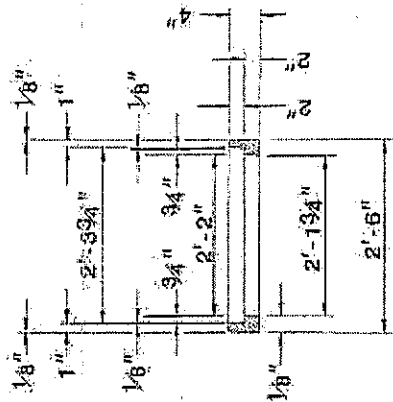
SHEET 1 OF 1  
 840.16



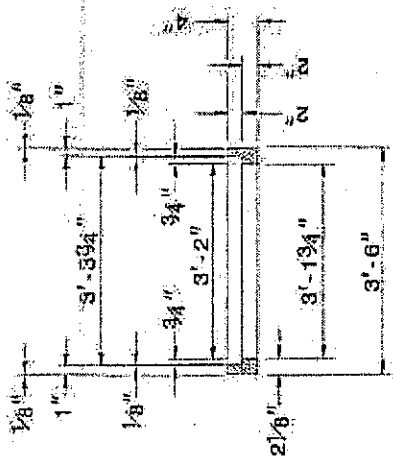
PLAN OF GRATING  
 CAST IRON



SECTION H-H



SECTION F-F



SECTION E-E

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
 DROP INLET FRAME AND GRATES  
 FOR USE WITH STD. DWG.S 840.14 AND 840.15

SHEET 1 OF 1  
 840.16

VERIFICATION OF COMPLIANCE WITH ENVIRONMENTAL REGULATIONS

(Check Appropriate Box)

- Permits from the N.C. Department of Environment and Natural Resources and the U.S. Army Corp of Engineers are not required for this project. However, all applicable federal and state regulations have been followed.
The required permits from the N.C. Department of Environment and Natural Resources and the U.S. Army Corp of Engineers have been obtained for this project. Copies of permits and Completion Certificates are attached.
All applicable NPDES Stormwater Permit requirements have been met for this project. (The applicant should contact the N.C. Division of Water Quality in Raleigh to determine if a stormwater permit is required.)
The project is in compliance with all applicable sedimentation and erosion control laws and regulations.

Project Name: \_\_\_\_\_

Township: \_\_\_\_\_

County: \_\_\_\_\_

Project Engineer: \_\_\_\_\_

Phone No.: \_\_\_\_\_

Project Contact: \_\_\_\_\_

Applicants Name: \_\_\_\_\_

P.E. SEAL

Date Submitted: \_\_\_\_\_

## ATTACHMENT "A"

Seeding and mulching shall be in accordance with Section 080 of the North Carolina Standard Specifications for Roads and Structures, except that Articles 080-0.0(B) shall not apply. Final determination of soil type shall be made by the Engineer. The following rates in pounds per acre shall apply:

<u>SANDY SOIL</u>	<u>CLAY SOIL</u>
50# - KY 31 Tall Fescue or Alta Tall Fescue	100# - KY 31 Tall Fescue or Alta Tall Fescue
5# - Centipede	15# - Kenblue Bluegrass
50# - Pensacola Bahiagrass	500# - Fertilizer
500# - Fertilizer	4000# - Limestone
4000# - Limestone	

Add 10# Kobe or Korean Lespedeza and 10# Millet to the above mixture from May 1 to August 31.

On cut and fill slopes 2:1 or steeper, add 30# Sericea Lespedeza from January 1 to December 31.

Fertilizer shall be 10-20-20 analysis. Upon written approval of the Engineer, a different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis.



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

MICHAEL F. EASLEY,  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

October 30, 2006

Chatham County

County Driveway Permit File Number 19-686

Subject: Commercial Driveway Permit Application with Entrance onto SR 1532  
(Harrison Pond Subdivision)

Mr. Michael V Zaccardo  
CE Group, Inc.  
11000 Regency Parkway  
Cary NC 27518

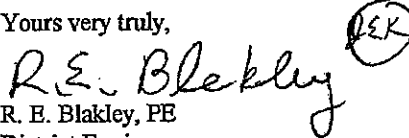
Dear Mr. Zaccardo:

Personnel assigned to this office have conducted a review of the permit Application and approval is granted subject to the following stipulations:

1. The entrance onto SR 1532 is to be constructed in accordance with the attached detail sheet.
2. The entrances onto SR 1532 shall be paved for at least 50' along the centerline of the entrance.
3. The entrance onto SR 1532 shall require radii on each side of the driveway as shown on the attached drawing.
4. No parking or outdoor advertising (signs) shall be allowed inside the right of way of SR 1532.
5. Any areas inside the right of way disturbed during construction shall be seeded and mulched immediately upon completion of construction.
6. Upon completion of construction, final approval by the District Engineer is required prior to opening the access connection for public use (page 9 Driveway Manual).

Attached to this correspondence please find an approved copy of TEB Form 65-04 (Driveway Permit Application - N. C. Department of Transportation). Upon completion of the driveway entrance construction please notify the Chatham County Maintenance Department (Phone 919-742-3431) so a final inspection of the entrance can be made.

Yours very truly,

  
R. E. Blakley, PE  
District Engineer

REB/jek

Attachments

Cc: Mr. Timothy Johnson, PE, Division Engineer  
Mr. B.F. Sloan, County Maintenance Engineer, Chatham County  
File

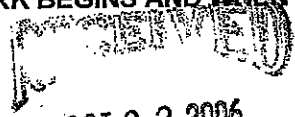
P.O. BOX 1164, ASHEBORO, NORTH CAROLINA 27204  
PHONE (336) 629-1423 FAX (336) 629-7228

<b>APPLICATION IDENTIFICATION</b>		<b>N.C. DEPARTMENT OF TRANSPORTATION STREET AND DRIVEWAY ACCESS PERMIT APPLICATION</b>
Driveway Permit No. <u>19-686</u>	Date of Application <u>10-30-06</u>	
County: <u>Chatham</u>		
Development Name: <u>Harrison Pond</u>		

<b>LOCATION OF PROPERTY</b>		
Route/Road: <u>SR 1532, River Forest Road</u>		
Exact Distance <u>1,800</u>	<input type="checkbox"/> Miles	<input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W
	<input checked="" type="checkbox"/> Feet	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
From the Intersection of Route No. <u>SR 1532</u> and Route No. <u>SR 1525</u> Toward <u>Haw River</u>		
Property Will Be Used For: <input checked="" type="checkbox"/> Residential /Subdivision <input type="checkbox"/> Commercial <input type="checkbox"/> Educational Facilities <input type="checkbox"/> TND <input type="checkbox"/> Emergency Services <input type="checkbox"/> Other		
Property: <input type="checkbox"/> is <input checked="" type="checkbox"/> is not within any City Zoning Area.		

**AGREEMENT**

- I, the undersigned property owner, request access and permission to construct driveway(s) or street(s) on public right-of-way at the above location.
- I agree to construct and maintain driveway(s) or street entrance(s) in absolute conformance with the current "Policy on Street and Driveway Access to North Carolina Highways" as adopted by the North Carolina Department of Transportation.
- I agree that no signs or objects will be placed on or over the public right-of-way other than those approved by NCDOT.
- I agree that the driveway(s) or street(s) will be constructed as shown on the attached plans.
- I agree that that driveway(s) or street(s) as used in this agreement include any approach tapers, storage lanes or speed change lanes as deemed necessary.
- I agree that if any future improvements to the roadway become necessary, the portion of driveway(s) or street(s) located on public right-of-way will be considered the property of the North Carolina Department of Transportation, and I will not be entitled to reimbursement or have any claim for present expenditures for driveway or street construction.
- I agree that this permit becomes void if construction of driveway(s) or street(s) is not completed within the time specified by the "Policy on Street and Driveway Access to North Carolina Highways".
- I agree to pay a \$50 construction inspection fee. Make checks payable to NCDOT. This fee will be reimbursed if application is denied.
- I agree to construct and maintain the driveway(s) or street(s) in a safe manner so as not to interfere with or endanger the public travel.
- I agree to provide during construction proper signs, signal lights, flaggers and other warning devices for the protection of traffic in conformance with the current "Manual on Uniform Traffic Control Devices for Streets and Highways" and Amendments or Supplements thereto. Information as to the above rules and regulations may be obtained from the District Engineer.
- I agree to indemnify and save harmless the North Carolina Department of Transportation from all damages and claims for damage that may arise by reason of this construction.
- I agree that the North Carolina Department of Transportation will assume no responsibility for any damages that may be caused to such facilities, within the highway right-of-way limits, in carrying out its construction.
- I agree to provide a Performance and Indemnity Bond in the amount specified by the Division of Highways for any construction proposed on the State Highway system.
- The granting of this permit is subject to the regulatory powers of the NC Department of Transportation as provided by law and as set forth in the N.C. Policy on Driveways and shall not be construed as a contract access point.
- **I AGREE TO NOTIFY THE DISTRICT ENGINEER WHEN THE PROPOSED WORK BEGINS AND WHEN IT IS COMPLETED.**

  
**OCT 02 2006**  
 DIVISION 8 DISTRICT 1  
 DEPT. OF TRANSPORTATION



SIGNATURES OF APPLICANT

PROPERTY OWNER (APPLICANT)  
COMPANY Harrison Pond, LLC  
SIGNATURE *Nancy P. Reeves, Prop.*  
ADDRESS P.O. Box 607  
Pittsboro, NC 27312 Phone No. 9198809542

WITNESS  
NAME *Janice B. Saunders*  
SIGNATURE *Janice B. Saunders*  
ADDRESS P.O. Box 607  
Pittsboro, NC 27312

AUTHORIZED AGENT  
COMPANY CE Group, Inc. *Michael N. Zaccardo*  
SIGNATURE *Michael N. Zaccardo*  
ADDRESS 11000 Regency Parkway  
Cary, NC 27518 Phone No. 9193678790

WITNESS  
NAME R. Stephen Rambear, Jr.  
SIGNATURE *R. Stephen Rambear, Jr.*  
ADDRESS 11000 Regency Parkway  
Cary, NC 27518

APPROVALS

APPLICATION RECEIVED BY DISTRICT ENGINEER

*RE Blakley*  
SIGNATURE

*10-2-06*  
DATE

APPLICATION APPROVED BY LOCAL GOVERNMENTAL AUTHORITY (when required)

SIGNATURE

TITLE

DATE

APPLICATION APPROVED BY DISTRICT ENGINEER

*RE Blakley*  
SIGNATURE

*10-30-06*  
DATE

INSPECTION BY NCDOT

SIGNATURE

TITLE

DATE

COMMENTS:

Public roadway entrance for 42 Lot Single Family Subdivision

RECEIVED

OCT 02 2006

DIVISION 8 DISTRICT 1  
WEST OF TRANSPORTATION



**CHATHAM COUNTY PUBLIC HEALTH DEPARTMENT**  
*Division of Environmental Health*  
*Soil Erosion and Sedimentation Control*

January 12, 2007

**LETTER OF APPROVAL**

Harrison Pond, LLC  
Attn: Nicolas P. Robinson  
P.O. Box 607  
Pittsboro, NC 27312

RE: Project Name: Harrison Pond  
Project Number: 2006-075  
Acres approved: 10.6  
Total Acres: 74.242  
Submitted By: CE Group, Inc.  
Date Received: January 9, 2007

Dear Sir or Madam:

This office has reviewed the subject erosion and sedimentation control plan. We find the plan to be acceptable and hereby issue this Letter of Approval. The enclosed Certificate of Approval must be posted at the job site. This plan approval shall expire two (2) years following the date of approval, if no land-disturbing activity has been undertaken.

Section 6 (l) of the Chatham County Sedimentation and Erosion Control Ordinance requires that a copy of the approved erosion control plan be on file at the job site. Also, this letter gives the notice required by G.S. 113A-61.1(a) of our right of periodic inspection to insure compliance with the approved plan.

North Carolina's Sedimentation Pollution Control Act is performance-oriented, requiring protection of existing natural resources and adjoining properties. If, following the commencement of this project, the erosion and sedimentation control plan is inadequate to meet the requirements of the Chatham County Sedimentation and Erosion Control

Ordinance, this office may require revisions to the plan and implementation of the revisions to insure compliance with the Act.

Acceptance and approval of this plan is conditioned upon your compliance with Federal and State water quality laws, regulations, and rules. In addition, local city or county ordinances or rules may also apply to this land-disturbing activity. This approval does not supersede any other permit or approval.

Please be aware that your project will be covered by the enclosed NPDES General Stormwater Permit NCGO1000 (Construction Activities). You should first become familiar with all of the requirements for compliance with the enclosed general permit.

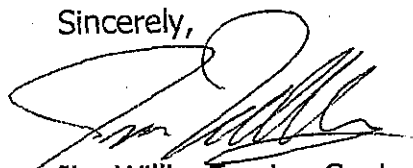
Please note that this approval is based in part on the accuracy of the information provided in the Financial Responsibility Form, which you provided. You are requested to file an amended form if there is any change in the information included on the form. Please notify us when you would like to schedule a preconstruction conference. Notification shall be given at least 7 days prior to initiation of activity.

Your cooperation is appreciated.

**\*PLEASE NOTE\***

The Land Disturbing fee must be submitted to our office prior to land disturbing activity can begin.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Willis", written over a horizontal line.

Jim Willis, Erosion Control Officer  
Environmental Health - SESC

ROBIN MAYCOCK LITTLE  
5409 NEW REBEL COURT, YOUNGSVILLE, NC 27596  
(919) 418-SOIL

July 6, 2006

Nick Robinson  
Harrison Pond LLC  
PO Box 607  
Pittsboro, NC 27312

Subject: Wetland and stream evaluation for Harbison Farm, +/- 74 ac., located at 538 River Forest Road (SR 1532) approximately 0.1 mile west of intersection with Hamlets Chapel Road (SR 1525) on north side of road. PIN 9754 00 09 6227.

Dear Mr. Robinson:

On June 9, 2006, you contracted my services as an environmental consultant to delineate any jurisdictional wetlands or waters on the subject property. On June 11, 2006, I conducted field surveys of the subject property, and completed wetland data forms and stream identification checklists. (See attached forms.) Using the wetland delineation procedure described in the 1987 U.S. Army Corps of Engineers (COE) Wetland Delineation Manual and the methodology of the N.C. Department of Natural Resources, Division of Water Quality (DWQ) Stream Identification Manual, I examined three ponds and their outlet channels. The remainder of the subject property is uplands, in mature mixed hardwood and pine forest.

#### General Information

The subject property consists of approximately 74 acres of pasture and forested land. It is located approximately 2.5 miles north of NC 15/501, to the east of the Haw River. The subject property is more specifically located at 538 River Forest Road (SR 1532), 0.1 miles west of the intersection of SR 1532 with SR 1525 (Hamlet Chapel Road). It is also shown on the Bynum USGS Topographic quadrangle map, at approximate latitude of 35.808°N, longitude of 79.1672°W. It is located in the Cape Fear River basin, and drains to Wilkinson Creek and then to the Haw River. Wilkinson Creek is classified by DWQ as WS IV, NSW, 16-35. The Chatham County Soil Survey is unpublished, but the field sheets for the subject property show it mapped as primarily Georgeville and Helena soil series.

#### Jurisdictional Areas

The three ponds are arbitrarily labeled as Pond A, B and C. Pond A is located on the west side of the subject property, nearest to the existing single family dwelling, in about the middle of the property. No wetlands were found in the vicinity of the pond and the outlet channel has been deepened and straightened all the way to the road. This channelization probably occurred at least ten years ago as evidenced by the age of the trees on the spoil piles or berm adjacent to the channel. There was no water in the channel, and hydric soil conditions were not observed until approximately 100 feet north of River Forest Road (SR 1532). The channel is marginally jurisdictional, but will be protected as a storm water outlet for the pond with a vegetated buffer 50 feet from ordinary high water level of the stream and pond. The pond is considered jurisdictional, although the drought conditions at the time of evaluation result in it being hydrologically isolated waters.

Pond B is located on the southeast side of the subject property, nearest to River Forest Road (SR 1532). No wetlands were found in the vicinity of the pond and the outlet channel has been deepened and straightened all the way to the road. The entire channel was found to be jurisdictional although there was very little water observed due to drought conditions. The channel will also be protected as a storm water outlet for the pond with a vegetated buffer 50 feet from ordinary high water level of the stream and pond. The pond is considered jurisdictional, and is hydrologically connected by the channel to downstream waters.

Pond C is located in the northwest corner of the property. It is significantly smaller than Pond A or B, and no water was observed in the pond. While the soils were mottled, there were no hydrologic indicators to qualify it as a jurisdictional water or wetland. There was no outlet observed, and it appears to have been dug in uplands, in the head of a drainage way. No hydrological connection was observed.

Since the COE does not have authority to regulate isolated waters, only DWQ would require notification if the pond were to be drained or filled or altered in any way. No buffer authorization is currently required in the Cape Fear River Basin. Nationwide Permit #39 and DWQ General Certification 32362 for Residential, Commercial and Institutional Developments, would apply if any impacts to the ponds or outlet channels were anticipated. Permanent or temporary impacts would be totaled for the entire property and calculated as area for the pond or linear feet for the streams and as acres or square feet for any wetland impacts. Impacts greater than 1/3 acre or 14,250 square feet would require written notification to and approval by DWQ prior to start of work.

It is my understanding from your engineer, Mr. Mark Ashness, PE, ASLA, of the CE Group, Inc. that you intend to protect the blue-line outlet channels on all three ponds with a permanent 50 foot wooded buffer on both sides of the channels. No impacts by roads, driveways, or utilities are anticipated to the wetlands, ponds, or to any blue-line streams on the subject property, and therefore, no written notification will be required to the COE or DWQ. You may submit a courtesy notification to show that no impacts are planned, but it is not required. You may want to put the buffered areas into a permanent easement in order to protect them in the future.

I hope that this information fulfills your needs with regards to the development of the subject property. If any other environmental issues arise during development, please do not hesitate to contact me at (919) 418-7645. I look forward to working with you again in the future.

Sincerely,



Robin Maycock Little  
Licensed Soil Scientist #1205

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
**(1987 COE Wetlands Determination Manual)**

Project / Site: Harrison Pond Subdivision Applicant / Owner: Harrison Pond LLC/Nick Robinson Investigator: Robin Maycock Little	Date: 06/11/06 County: Chatham State: NC
Do normal circumstances exist on the site? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Is the site significantly disturbed (Atypical situation)? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential problem area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (explain on reverse if needed)	Community ID: Transect ID: Plot ID: 1

**VEGETATION**

Dominant Plant Species	Indicator	Stratum	Dominant Plant Species	Indicator	Stratum
1. <i>Platanus occidentalis</i>	FACW-	O	9.		
2. <i>Acer rubrum</i>	FAC	O	10.		
3. <i>Quercus phellos</i>	FACW-	O	11.		
4. <i>Microstegium vimineum</i>	FAC+	H	12.		
5. <i>Betula nigra</i>	FACW	u	13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 100%

Remarks:  
 Meets FAC-Neutral test in channel/depressional area

**HYDROLOGY**

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other  <input type="checkbox"/> No Recorded Data Available  Field Observations:  Depth of Surface Water: _____ (in.)  Depth to Free Water in Pit: _____ (in.)  Depth to Saturated Soil: <u>&gt;12</u> (in.)	<b>Wetland Hydrology Indicators</b>  <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands  <b>Secondary Indicators:</b> <input checked="" type="checkbox"/> Oxidized Roots Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Remarks: Has two secondary hydrologic indicators; drought conditions; mapped at topographic break, at edge of outlet channel/stream.	

**SOILS**

1

Map Unit Name (Series and Phase): \_\_\_\_\_ Drainage Class: \_\_\_\_\_

Taxonomy (Subgroup): \_\_\_\_\_ Confirm Mapped Type? Yes  No

Profile Description:					
Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0 - 8	A	7.5 YR 5/3, 6/3	5YR 4/6	30%, distinct, common loam	
8 - 13	AB	7.5 YR 5/4	5YR 4/6	30%, distinct	clay loam
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

**Hydric Soil Indicators:**

Histosol  
 Histic Epipedon  
 Sulfidic Odor  
 Aquic Moisture Regime  
 Reducing Conditions  
 Gleyed or Low-Chroma Colors

Concretions  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streaking in Sandy Soils  
 Listed on Local Hydric Soils List  
 Listed on National Hydric Soils List  
 Other (Explain in Remarks)

**Remarks:**  
 Meets Hydrologic Indicators F8 and F3 – somewhat closed depression due to culvert inlet elevation at road (NS (2))

**WETLAND DETERMINATION**

**PHOTO / USGS / NRCS**

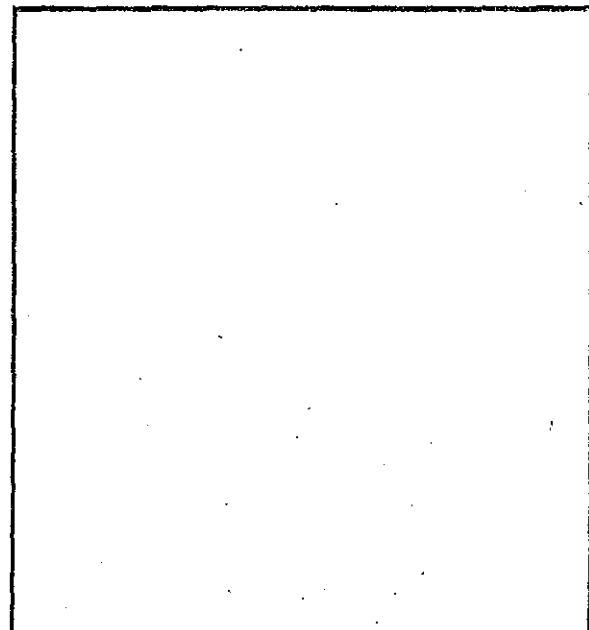
Hydrophytic Vegetation Present? Yes  No

Wetland Hydrology Present? Yes  No

Hydric Soils Present? Yes  No

Is the Sampling Point Within a Wetland? Yes  No

**Remarks:** Wetland exists below outlet channel to pond/disturbed stream channel.



**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
**(1987 COE Wetlands Determination Manual)**

Project / Site: Harrison Pond Subdivision Applicant / Owner: Harrison Pond LLC/Nick Robinson Investigator: Robin Maycock Little _____	Date: 06/11/06 County: Chatham State: NC
Do normal circumstances exist on the site?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Is the site significantly disturbed (Atypical situation)?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential problem area?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (explain on reverse if needed)	Community ID: Transect ID: Plot ID: 2

**VEGETATION**

Dominant Plant Species      Indicator      Stratum	Dominant Plant Species      Indicator      Stratum
1. <i>Gleditsia triacanthos</i> FACU      O	9.
2. <i>Acer rubrum</i> FAC      O	10.
3. <i>Vitis spp.</i> FACW-UPL      V	11.
4. <i>Rubus spp</i> UPL      V	12.
5.	13.
6.	14.
7.	15.
8.	16.

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 25%

**Remarks:**  
Does not meet FAC-Neutral test above topo break, outside of channel.

**HYDROLOGY**

<input checked="" type="checkbox"/> Recorded Data (Describe In Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other  <input type="checkbox"/> No Recorded Data Available  <b>Field Observations:</b>  Depth of Surface Water: _____ (in.)  Depth to Free Water in Pit: _____ (in.)  Depth to Saturated Soil: <u>&gt;12</u> (in.)	<b>Wetland Hydrology Indicators</b>  <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands  <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Roots Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Remarks:</b> No hydrologic indicators present.	



**SOILS**

2

Map Unit Name (Series and Phase): \_\_\_\_\_ Drainage Class: \_\_\_\_\_  
 Taxonomy (Subgroup): \_\_\_\_\_ Confirm Mapped Type? Yes  No

**Profile Description:**

Depth (Inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0 - 8	A	7.5 YR 5/3, 6/3			loam
8 - 15	B	7.5 YR 5/4			clay loam
				/	
				/	
				/	
				/	
				/	
				/	

**Hydric Soil Indicators:**

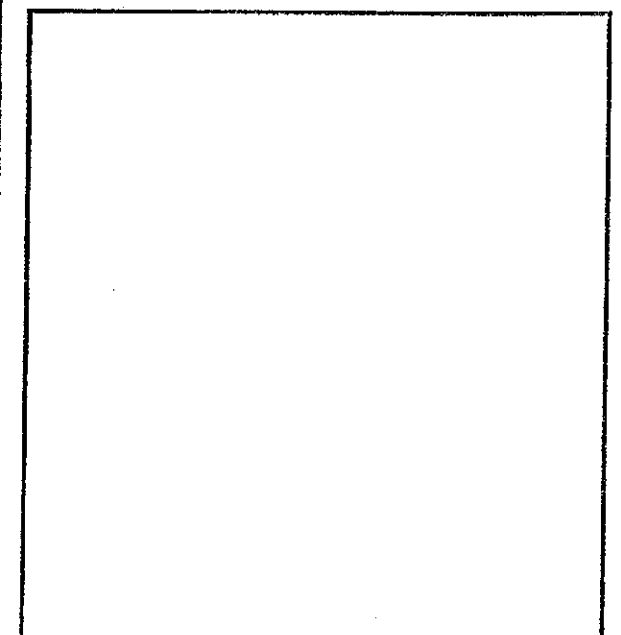
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed On Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:  
Does not meet any Hydrologic indicators/ not hydric

**WETLAND DETERMINATION** **PHOTO / USGS / NRCS**

Hydrophytic Vegetation Present? Yes  No   
 Wetland Hydrology Present? Yes  No   
 Hydric Soils Present? Yes  No   
 Is the Sampling Point Within a Wetland? Yes  No

Remarks: Uplands surround channel and pond.



**DATA FORM  
ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Determination Manual)**

Project / Site: Harbison Farm Applicant / Owner: Investigator: Robin Maycock Little	Date: 6/11/06 County: Chatham State: NC
Do normal circumstances exist on the site?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the site significantly disturbed (Atypical situation)?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential problem area?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (explain on reverse if needed)	Community ID: Transect ID: Plot ID: 3

**VEGETATION**

Dominant Plant Species	Indicator	Stratum	Dominant Plant Species	Indicator	Stratum
1. <i>Liquidambar styraciflua</i>	FAC	O	9.		
2. <i>Microstegium spp.</i>	FAC	H	10.		
3. <i>Pinus taeda</i>	FAC	O	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 100%

Remarks:

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other  <input checked="" type="checkbox"/> No Recorded Data Available  Field Observations:  Depth of Surface Water:      0 (in.)  Depth to Free Water in Pit:      0 (in.)  Depth to Saturated Soil:      >12 (in.)	<b>Wetland Hydrology Indicators</b>  <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands  <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Roots Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Remarks:</b> Old dug pond with no apparent outlet or inlet, no water, no hydric soil, surrounded by uplands in head of drainage way.	

**SOILS**

Map Unit Name (Series and Phase): <u>Lignum 2 - 6%</u>		Drainage Class: <u>moderately well drained</u>			
Taxonomy (Subgroup): <u>Aquic hapludult</u>		Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0 - 12	B	7.5YR 5/6	10YR 7/2	20% / strong	clay
_____	_____	_____	_____	_____ / _____	_____
_____	_____	_____	_____	_____ / _____	_____
_____	_____	_____	_____	_____ / _____	_____
_____	_____	_____	_____	_____ / _____	_____
_____	_____	_____	_____	_____ / _____	_____
_____	_____	_____	_____	_____ / _____	_____
_____	_____	_____	_____	_____ / _____	_____
_____	_____	_____	_____	_____ / _____	_____
_____	_____	_____	_____	_____ / _____	_____
_____	_____	_____	_____	_____ / _____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed On Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:  
Does not meet F3 or F8 Hydric Soil Indicators

<p><b>WETLAND DETERMINATION</b></p> <p>Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Is the Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Remarks: Small dry dug pond site, &lt; 4000 sq. ft.</p>	<p><b>PHOTO / USGS / NRCS</b></p>
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WILKINSON CREEK

Project Name: HARRISON POND

River Basin: CAPE FEAR

County: Chatham

Evaluator: RML/HIC

PWQ Project Number:

Nearest Named Stream: TO HAW RIVER UT

Latitude: 35.808N

Signature: RML/HIC

Date: 6/11/06

USGS QUAD: BYNKM

Longitude: 79.1672W

Location/Directions:

PLEASE NOTE: If evaluator and landowner agree that the feature is a man-made ditch, then use of this form is not necessary. Also, if in the best professional judgement of the evaluator, the feature is a man-made ditch and not a modified natural stream, this rating system should not be used.

PRIMARY FIELD INDICATORS: (Circle One Number Per Line)

A. Geomorphology	Absent	Weak	Moderate	Strong
(1) Is there a Riffle-Pool Sequence?	0	1	2	3
(2) Is the USDA texture in Streambed different from surrounding terrain?	0	1	2	3
(3) Are natural Levees present?	0	1	2	3
(4) Is the Channel Sinuous?	0	1	2	3
(5) Is there an active (or relic) Floodplain Present?	0	1	2	3
(6) Is the channel Braided?	0	1	2	3
(7) Are recent alluvial deposits present?	0	1	2	3
(8) Is there a bankful bench present?	0	1	2	3
(9) Is a continuous Bed & Bank present?	0	1	2	3
NOTE: If Bed & Bank Caused By Ditching And WITHOUT Sinuosity Then Score=0*				
(10) Is a 2 <sup>nd</sup> order or greater channel (as indicated on Topo map and/or in field) present?	Yes=3			No=0

PRIMARY GEOMORPHOLOGY INDICATOR POINTS: 1

I. Hydrology	Absent	Weak	Moderate	Strong
(1) Is there a groundwater flow/discharge Present?	0	1	2	3

PRIMARY HYDROLOGY INDICATOR POINTS: 0

II. Biology	Absent	Weak	Moderate	Strong
(1) Are fibrous roots present in streambed?	3	2	1	0
(2) Are rooted plants present in streambed?	3	2	1	0
(3) Is periphyton present? Algae on rocks under water?	0	1	2	3
(4) Are bivalves present?	0	1	2	3

PRIMARY BIOLOGY INDICATOR POINTS: 3

SECONDARY FIELD INDICATORS: (Circle one number per line)

B. Geomorphology	Absent	Weak	Moderate	Strong
(1) Is there a head cut present in channel?	0	1	1.5	1.5
(2) Is there a grade control point in channel?	0	1	1.5	1.5
(3) Does topography indicate a natural drainage way?	0	1	1.5	1.5

SECONDARY GEOMORPHOLOGY POINTS: 1.5

I. Hydrology	Absent	Weak	Moderate	Strong
(1) Is this year's (or last's) leaf litter Present in streambed?	0	1	1.5	0
(2) Is sediment on plants (or debris) present?	0	.5	1.5	1.5
(3) Are wrack lines present?	0	.5	1.5	1.5
(4) Is water in channel and > 48 hrs. since Last known rain? (*Note: If ditch indicated in #9 above skip this step and #5 below*)	0	.5	1.5	1.5
(5) Is there water in channel during dry conditions OR in growing season?	0	.5	1.5	1.5
(6) Are hydric soils present in sides of channel (or in headcut)?	Yes=1.5			No=0

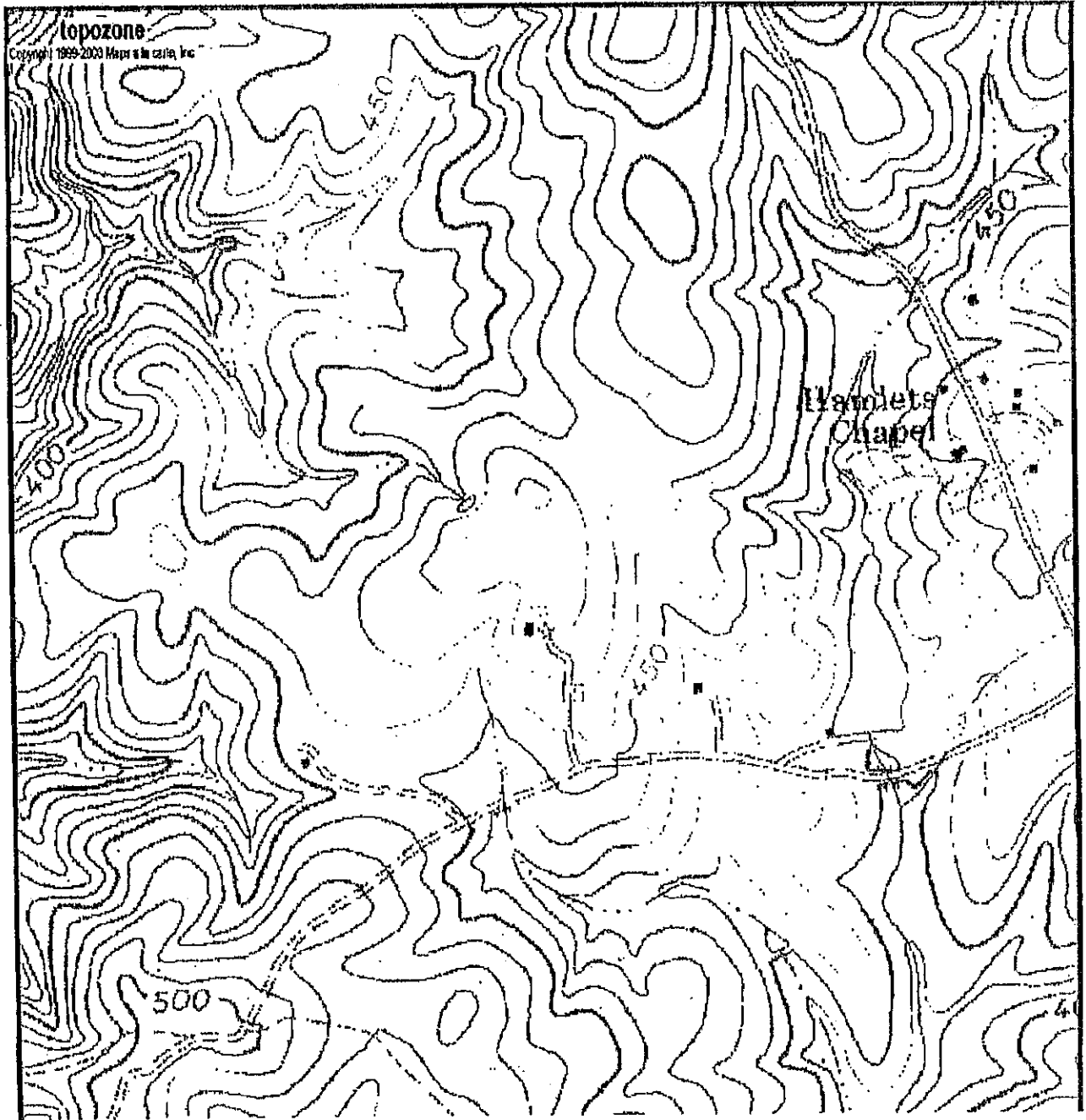
SECONDARY HYDROLOGY INDICATOR POINTS: .5

II. Biology	Absent	Weak	Moderate	Strong
(1) Are fish present?	0	.5	1.5	1.5
(2) Are amphibians present?	0	.5	1.5	1.5
(3) Are aquatic turtles present?	0	.5	1.5	1.5
(4) Are crayfish present?	0	.5	1.5	1.5
(5) Are Macroinvertebrates present?	0	.5	1.5	1.5
(6) Are iron oxidizing bacteria/fungus present?	0	.5	1.5	1.5
(7) Is filamentous algae present?	0	.5	1.5	1.5
(8) Are wetland plants in streambed?	SAV Mostly OBL	Mostly FACW	Mostly FAC	Mostly FACU Mostly UPL

\*NOTE: If total absence of all plants in streambed is noted above skip this step UNLESS SAV present.  
SECONDARY BIOLOGY INDICATOR POINTS: .5

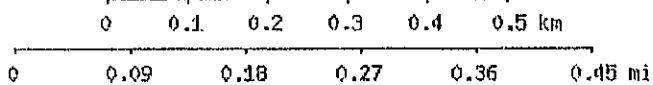
TOTAL POINTS (Primary + Secondary) = 6.5 (If greater than or equal to 12 points the stream is at least intermittent)

channelized stream channel below pond to culvert at road, straight, no water (drought conditions) berm to one side.




<http://www.topozone.com/print.asp?z=17&n=3964247&e=665596&s=24&size=1&u=5&datum=nad83>

TopoZone - The Web's Topographic Map



Map center is 35.8084°N, 79.1672°W (WGS84/NAD83)  
**Bynum** quadrangle  
Projection is UTM Zone 17 NAD83 Datum

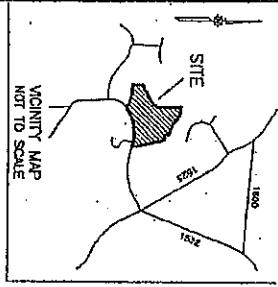


M=-7.273  
G=1.073

<http://www.topozone.com/print.asp?z=17&n=3964247&e=665596&s=24&size=1&u=5&datum=nad83>

JPEG image 1056x816 pixels

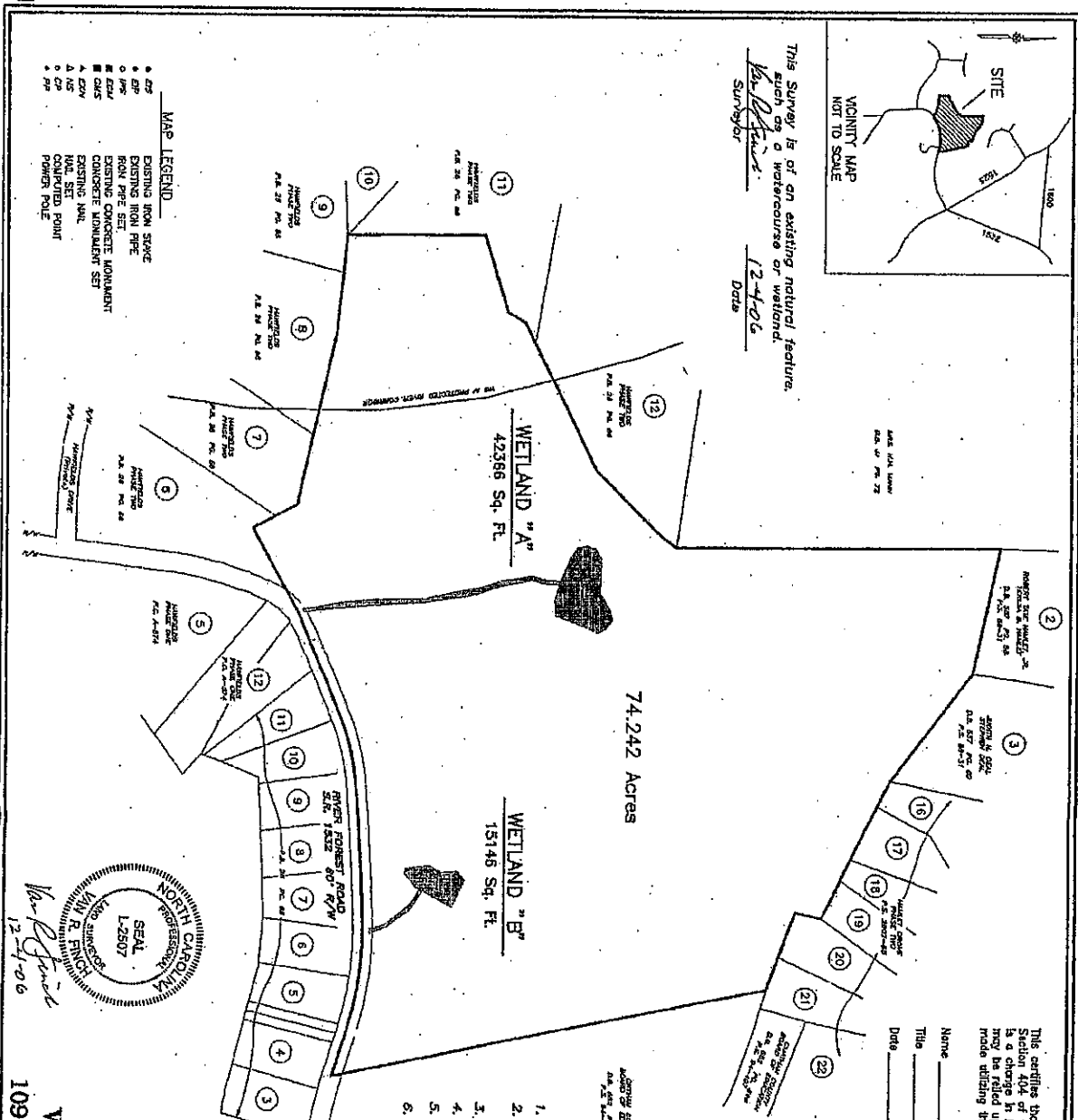




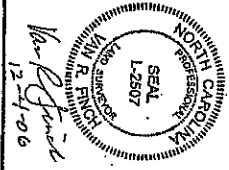
This Survey is of an existing natural feature, such as a watercourse or wetland.

*Van R. Finch*  
Surveyor

12-4-06  
Date



- MAP LEGEND**
- ▲ IRON STAKE
  - IRON PIPE
  - CONCRETE MONUMENT SET
  - ▲ CONCRETE MONUMENT SET
  - ▲ MONUMENT SET
  - COMPARED POINT
  - POWER POLE



This certifies that this copy of this plat accurately depicts the boundary of the jurisdiction of Section 404 of the Clean Water Act for delineation by the user. If the user is not a professional engineer, there may be a change in law or our published regulations, the determination of Section 404 jurisdiction may be filled upon for a period not to exceed five years from the date. This determination was made utilizing the 1987 Corps of Engineers Wetlands Delineation Manual.

Name \_\_\_\_\_  
 Title \_\_\_\_\_  
 Date \_\_\_\_\_

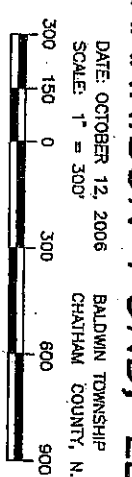
**NOTES**

1. This is not a Property Boundary Survey.
2. Acreage shown was taken from a survey by Van R. Finch, P.L.S., entitled "Survey for Harrison Pond, LLC", and dated 8/9/06.
3. This survey was performed as per Instructions from GE Group, Inc.
4. Deed Reference: Book 1121, Page 62
5. Closure on traverse lines locating ponds and streams: 1 /10,000+
6. Improvements are not shown on this survey (residences, roads, power lines, outbuildings, driveways, wells, tanks, etc).

**HARRISON POND, LLC**

DATE: OCTOBER 12, 2006  
 SCALE: 1" = 300'

**VAN R. FINCH - LAND SURVEYS, P.A.**  
 109 Hillsboro Street  
 Pittsboro, N. C. 27312



KEY MAP  
 WETLAND DELINEATION  
 FOR





**SUBDIVISION:** Harrison Pond

**DIRECTIONS:** ± 0.45 miles southwest of the SR 1525 / SR 1532 Intersection

**DEVELOPER:** Harrison Pond LLC **PHONE NUMBER:** 919-542-2400

**Major Development:**  X  **Minor Development:** \_\_\_\_\_  
**Development with acreage of 10 acreage of 10 acres or more:** \_\_\_\_\_

<b>Proposed road names</b>	<b>OK to submit</b>	<b>DUPLICATED Do not Submit</b>
<u>Harrison Pond Drive</u>	_____	_____
<u>Milton Court</u>	_____	_____
<u>Sweet Pine Circle</u>	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**DATE SUBMITTED TO EOC:** January 4, 2007

**SUBMITTED BY:** CE Group, Inc.

**EOC OFFICER:** \_\_\_\_\_

**DATE ROADS APPROVED:** \_\_\_\_\_

**DATE FINAL PLAT RECEIVED:** \_\_\_\_\_

**DATE GIVEN TO 911:** \_\_\_\_\_

**DATE CONTACT MADE WITH NUMBERS:** \_\_\_\_\_

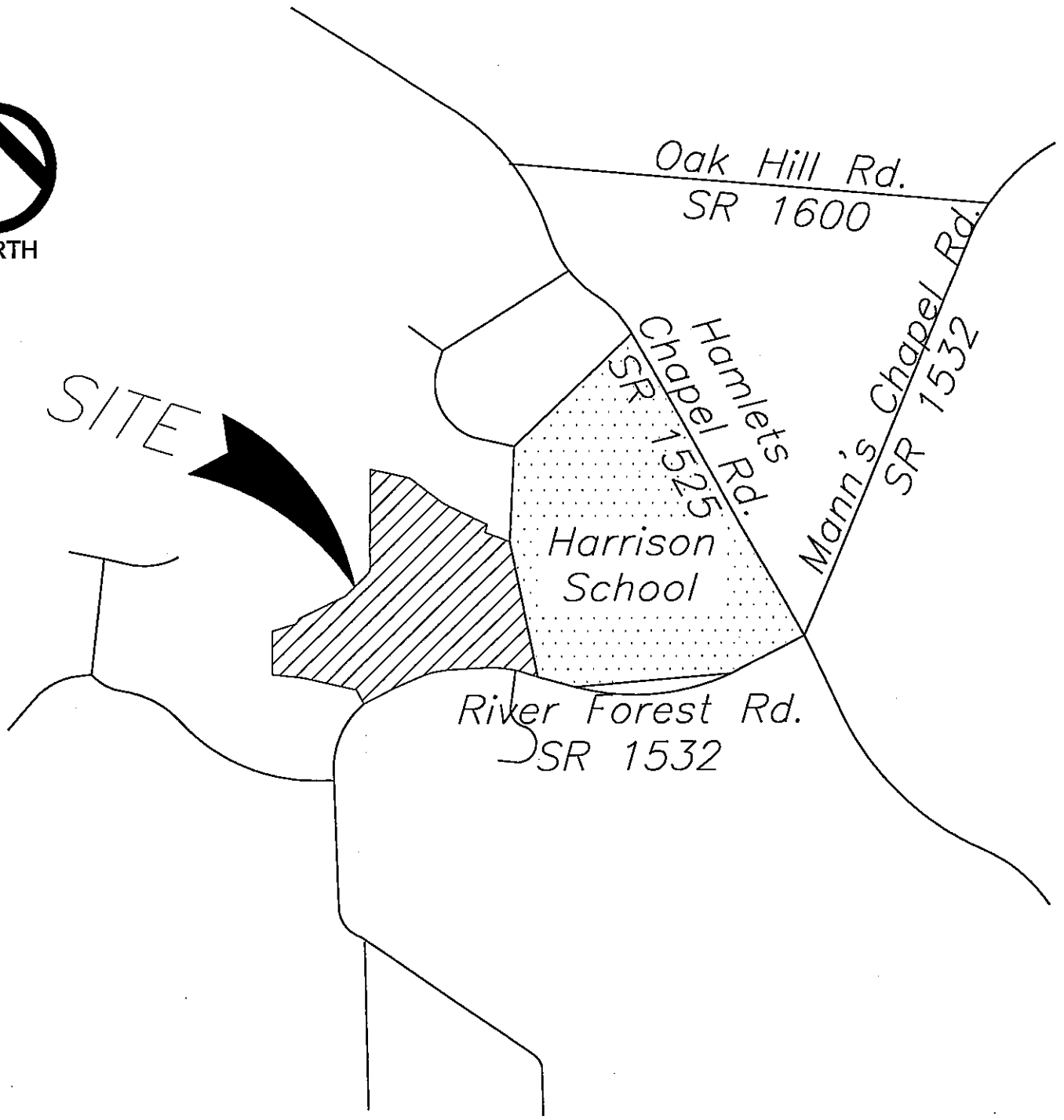
**SURROUNDING COUNTY CONTACTED:** \_\_\_\_\_

**PERSON SPOKEN WITH:** \_\_\_\_\_

**COMMENTS:** \_\_\_\_\_

revised 4/19/02





**VICINITY MAP**  
NOT TO SCALE

**Clay S Lowder**

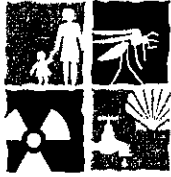
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**From:** Clay S Lowder [clay@cegrouppinc.com]  
**Sent:** Thursday, January 04, 2007 3:58 PM  
**To:** Denise Suits  
**Cc:** Jeff Westmoreland; Nick Robinson; Mike Zaccardo; Mark P Ashness  
**Subject:** Harrison Pond  
**Attachments:** 101-03 Vicinity Map.pdf; Roads Submitted 010407.pdf

Denise,

Thanks for you help with the road names. I have also attached a vicinity map for your use. Please call with any questions.

Thank You  
Clay S. Lowder  
**CE** Group, Inc.



**Division of Environmental Health**

Terry L. Pierce, Director

State of North Carolina  
Michael F. Easley, Governor

Department of Environment  
and Natural Resources  
William G. Ross, Secretary

**Public Water Supply Section**

Jessica G. Miles, Section Chief

January 4, 2007

Mr. Charles Horne, County Manager  
Chatham County Water System  
Post Office Box 809  
Pittsboro, North Carolina 27312

Re: Engineering Plans and Specifications Approval  
Water Main Extension  
Chatham County Water System to serve  
Harrison Pond Subdivision  
Chatham County  
I.D. # 03-19-126

**This is not an Authorization to Construct**

Dear Mr. Horne:

Enclosed please find one copy of the "Application for Approval..." together with one copy of the referenced engineering plans and specifications bearing the Division of Environmental Health stamp of approval for the referenced project. These engineering plans and specifications are approved under Division of Environmental Health serial number 06-02118, dated December 21, 2006.

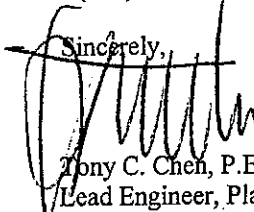
Engineering plans and specifications prepared by Michael V. Zaccardo, P.E., call for the installation of approximately 4,934 feet of 8-inch, 694 feet of 4-inch and 476 feet of 2-inch water mains, valves, hydrants and other related appurtenances along River Forest Road (S.R. 1532), Road A, Road B and Road C to serve Harrison Pond Subdivision with 42 lots.

**Please note that an "Authorization to Construct" requires both this approval of Engineering Plans and Specifications and submittal of a complete Water System Management Plan. No construction shall be undertaken, and no contract for construction, alteration, or installation shall be entered into until the Department issues an Authorization to Construct letter in accordance with 15A NCAC 18C .0305(a).**

These plans and specifications cited in the foregoing application are approved insofar as the protection of public health is concerned as provided in the rules, standards and criteria adopted under the authority of Chapter 130A-317 of the General Statutes. This approval does not constitute a warranty of the design, construction or future operation of the water system.

One copy of each enclosed document is being forwarded to our Raleigh Regional Office. The third copy is being retained in our permanent files.

If we can be of further service, please call on us at (919) 733-2321.

Sincerely,  
  
Tony C. Chen, P.E.  
Lead Engineer, Plan Review  
Technical Services Branch

TCC/HSO/db

Enclosures: Approval Documents  
cc: Michael L. Douglas, Regional Engineer  
Chatham County Health Department  
CE Group, Inc.



**Division of Environmental Health**

Terry L. Pierce, Director

State of North Carolina  
Michael F. Easley, Governor

**Public Water Supply Section**

Jessica G. Miles, Section Chief

Department of Environment and  
Natural Resources  
William G. Ross, Secretary

December 22, 2006

CHARLES HORNE, COUNTY MANAGER  
P O BOX 809  
PITTSBORO, NC 27312

Re: **Authorization to Construct  
HARRISON POND  
CHATHAM CO WATER SYSTEM  
CHATHAM COUNTY NC0319126**

Dear Applicant:

This letter is to confirm that a complete Engineer's Report and a Water System Management Plan have been received, and that engineering plans and specifications have been approved by the Department for **HARRISON POND, DEH Serial No. 06-02118**.

The Authorization to Construct is valid for 24 months from the date of this letter. Authorization to Construct may be extended if the Rules Governing Public Water Supplies and site conditions have not changed. The Authorization to Construct and the engineering plans and specifications approval letter, shall be posted at the primary entrance of the job site before and during construction.

Approval must be secured from the Department before any construction or installation if:

- Deviation from the approved engineering plans and specifications is necessary; or
- There are changes in site conditions affecting capacity, hydraulic conditions, operating units, the function of water treatment processes, the quality of water to be delivered, or conditions imposed by the Department in any approval letters.

Upon completion of the construction or modification and in accordance with Rule .0303, the applicant shall submit a certification statement directly to HENRI OU of this office. This statement must be signed and sealed by a registered professional engineer stating that construction was completed in accordance with approved engineering plans and specifications, including any provisions stipulated in the Department's engineering plan and specification approval letter. Prior to Final Approval, the applicant shall submit a signed certification stating that the requirements in 15A NCAC 18C .0307 (d) and (e) have been satisfied and if applicable, a completed application for an Operating Permit and fee. Once the certification statements and operating permit application and fee, if applicable, are received and determined adequate, the Department will grant Final Approval in accordance with Rule .0309 (a). Therefore, no construction, alteration, or expansion of a water system shall be placed into service until Final Approval has been issued by the Department.

If we can be of further assistance, please call (919) 733-2321.

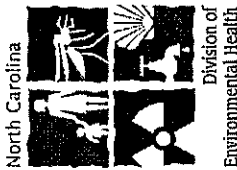
Sincerely,

A handwritten signature in black ink, appearing to read "Tony C. Chen".

Tony C. Chen, P.E.  
Technical Services Branch  
Public Water Supply Section

TCC:HSO

cc: MICHAEL L. DOUGLAS, P.E., REGIONAL ENGINEER  
C E GROUP INC



State of North Carolina  
 Department of Environment and Natural Resources  
 Division of Environmental Health



Public Water System Authorization to Construct

CHATHAM CO WATER SYSTEM  
 NC0319126

Public Water System Name  
 and PWSID No. (if available):

HARRISON POND

Project Name:

06-02118

Serial No.

12/21/2006

Issue Date:

24 months after Issue Date

Expiration Date:

In accordance with NCAC 18C .0305, this Authorization to Construct must be posted for inspection at the primary entrance to the job site during construction.

BRADSHAW & ROBINSON, LLP

ATTORNEYS AND COUNSELORS AT LAW

HALL-LONDON HOUSE

128 HILLSBORO STREET

POST OFFICE BOX 607

PITTSBORO, NORTH CAROLINA 27312

PATRICK E. BRADSHAW  
NICOLAS P. ROBINSON  
COURTNEY A. BOWEN  
ANDREW T. SLAWTER

(919) 542-2400  
FAX 542-0496  
robinson@bradshawrobinson.com

January 11, 2007

Dr. Ann Y. Hart, Superintendent  
Chatham County Schools  
P. O. Box 128  
Pittsboro, North Carolina 27312

RE: Harrison Pond

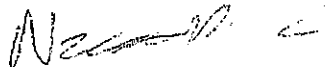
Dear Dr. Hart:

Enclosed please find a site plan for the Harrison Pond subdivision. We will be applying for preliminary plat approval (the sketch design plat was previously approved) and seek comments that the school system may have, if any, with regard to the roadways depicted thereon.

This is a 42 lot subdivision located on a 74-acre parcel of land that is immediately behind the Perry Harrison School property on River Forest Road.

Please let us know if you have any comments.

Very truly yours,



Nicolas P. Robinson

NPR:jbs

Enclosures

c: Mark P. Ashness