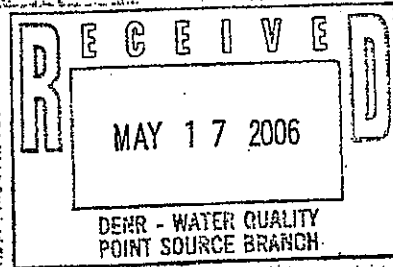


# CE Group, inc.

LAND PLANNING  
CIVIL ENGINEERING  
CONSTRUCTION MANAGEMENT



## Transmittal

TO: NC DENR, Division of Water Quality
<b>Hand Delivery</b>
512 North Salisbury St., Suite 1304
Raleigh, NC 27604
ATTENTION Permit Review

DATE: 05/16/06
PROJECT NO: 275-05
Re: The PARKS at Meadowview Subdivision Phase 1A
Pump Station and Low Pressure Sewer System Submittal

Quantity	Drawing No.	Description
2 each	Dated 5/15/06	PSSA 10/99 Application
2 each	Dated 5/15/06	PSFMGSA 10/99 Application
2 each	Sealed 5/15/06	The PARKS at Meadowview Subdivision Phase 1A Construction Drawings
2 each	02600 - 5/15/06	Technical Specifications for Wastewater Pump Station & Low Pressure Sanitary Sewerage Collection System
1 each	Dated 5/16/06	Heater's Public Utilities Commission letter of "Utility Status"
2 each	Sealed 5/15/06	Fema Flood Plain Certification
2 each	Sealed 5/15/06	Project Summary & Design Calculations
1 each	Dated 0/00/05	WSCA Form executed
1 each	Dated 5/16/06	Application Fee, \$400
1 each	Dated 11/29/04	Flow Reduction Letter from NCDENR / DWQ (250 gpd/unit)

REMARKS Please process for review. Thank you

CC: Mike Myers- Heater Utilities

Signed

Mike Zaccardo, P.E.

CE Group, inc.

11000 Regency Parkway, Suite 410 Cary, N.C. 275112- voice(919)367-8790- fax(919)367-8791

**State of North Carolina**  
**Department of Environment and Natural Resources**  
**Division of Water Quality**

**PUMP STATIONS, FORCE MAINS, AND GRAVITY SEWERS**

(THIS FORM MAY BE PHOTOCOPIED FOR USE AS AN ORIGINAL)

Application Number: \_\_\_\_\_ (to be completed by DWQ)

**I. GENERAL INFORMATION:**

1. Applicant's name (name of the municipality, corporation, individual, etc.): \_\_\_\_\_  
Heater Utilities, Inc.
2. Owner's or signing official's name and title (15A NCAC 2H .0206(b)): \_\_\_\_\_  
Michael J. Myers, Manager, Engineering and Compliance
3. Name and complete address of applicant: 202 Mackenan Court  
City: Cary State: NC Zip: 27511  
Telephone number: ( 919 ) 467-8712 ext 706 Facsimile number: ( 919 ) 460-1788
4. Project name (name of the subdivision, facility or establishment, etc.): \_\_\_\_\_  
The PARKS at Meadowview Subdivision Phase 1A
5. County where project is located: \_\_\_\_\_ Chatham
6. Fee submitted: \$ \$400.00 (See Instruction C.)
7. Name and complete address of engineering firm: CE Group, Inc., 11000 Regency Parkway, Suite 410  
City: Cary State: NC Zip: 27511  
Telephone number: ( 919 ) 367-8790 ext 103 Facsimile number: ( 919 ) 367-8791
8. Name and affiliation of contact person who can answer questions about application: \_\_\_\_\_  
Mike Zaccardo, P.E., Project Manager

**II. PERMIT INFORMATION:**

1. Project is:  new; \_\_\_\_\_ modification
2. If this application is being submitted as a result of a modification to an existing permit, provide:  
existing permit number \_\_\_\_\_ and the issuance date \_\_\_\_\_
3. Applicant is: \_\_\_\_\_ public (See Instruction G; skip to item II.4.);  private  
If private, units (lots, townhomes, etc.) are: \_\_\_\_\_ leased (Skip to item II.4.);  sold  
If sold, facilities owned by a:  public utility (See Instruction H.);  
\_\_\_\_\_ homeowners' association/developer (See Instruction I.)
4. If project disturbs more than one acre, provide date when an erosion and sedimentation control plan was submitted to the Division of Land Resources for approval: expect submittal 5/17/06 to Chatham Co. E/C
5. If project includes any stream or wetland crossings, provide date when Nationwide 12 or 404 permit was submitted for approval: submitted 4/17/06
6. Provide buffers used to maintain compliance with any applicable river basin rules in 15A NCAC 2B .0200 (e.g., neuse River basin buffer rules): 100' Buffers per Chatham County Ordinance

**III. INFORMATION ON WASTEWATER:**

1. Please provide a one- or two-word description specifying the origin of the wastewater (school, subdivision, hospital, commercial facility, industry, apartments, condominiums, etc.): The PARKS at Meadowview Subdivision Phase 1A contains 99 residential lots
2. Volume of wastewater generated by this project: 24,750 gallons per day
3. Explanation of how wastewater flow was determined (15A NCAC 2H .0219(l)): 99 lots @ 250 GPD = 24,750 GPD
4. Nature of wastewater: 100 % Domestic/Commercial; \_\_\_\_\_ % Industrial; \_\_\_\_\_ % Other waste - specify: \_\_\_\_\_
5. If wastewater is industrial in nature:
  - a. Level of pretreatment that has been provided to ensure protection of the receiving collection system and wastewater treatment facility: None
  - b. If a pretreatment permit is required, has one been issued? \_\_\_\_\_ Yes; \_\_\_\_\_ No. If yes, please attach a copy of the pretreatment permit. If no, provide date application was submitted: \_\_\_\_\_

**IV. DESIGN INFORMATION:**

1. Brief project description: The PARKS at Meadowview Subdivision Phase 1A contains 99 residential lots
2. Owner and name of wastewater treatment facility (WWTF) receiving wastewater (See Instruction J.): Heater Utilities, Inc. - Buck Mountain Reclaimed Wastewater Facility
3. WWTF permit number: 0022870
4. List the owner(s) of any intermediate sewers if different from applicant or owner of WWTF (See Instruction J.): N/A
5. Permit number(s) for sewers immediately downstream: N/A
6. Pipe diameter of sewers immediately downstream: N/A
7. Engineering evaluation of downstream sewers' ability to accept the wastewater from this project (See Instruction K.) is provided on page N/A of the calculations.
8. Summary of GRAVITY SEWER to be permitted:

Diameter (inches)	Length (linear feet)

9. Does the subject gravity sewer collection system comply with the Gravity Sewer Minimum Design Criteria and 15A NCAC 2H .0200? \_\_\_\_\_ Yes; \_\_\_\_\_ No. If no, please identify criteria and explain: N/A

**10. V. PUMP #1 STATION INFORMATION (Complete Page 5 of 6 for each pump station included in this project.)**

1. Pump station number or name: P.S. #4
2. In accordance with 15A NCAC 2H .0219(h)(3), describe the measures that are being implemented to prevent impacts on downslope surface waters should a power failure occur at this pump station (See Instruction L.):

On-site generator (John Deere Model J100U KW with Diesel Gas)

3. Design flow of the pump station: 0.8078 million gallons per day
4. Operational point(s) of the pump(s): 561 gallons per minute at 161 feet total dynamic head (TDH)
5. Number of pumps provided (15A NCAC 2H .0219(h)(2)): 2
6. Number of pumping cycles at average daily flow (15A NCAC 2H .0219(h)(2)): 3.55 cycles per hour
7. For extended travel times (greater than 24 hours) or if appropriate pumping cycles are not met, describe odor and corrosion control measures taken: None
8. Provide the location of each design element in the specifications and/or engineering plans:

Design Element	Sheet Number of the Plans	Page Number in the Specifications
Alternate Power Source: Portable Generator (telemetry and receptacle required) On-Site Generator (automatic transfer switch required)		
	PS -01	
Wet Well Vented with Screen	PS -01	11310-6
Fillets in Wet Well	PS -01	11310-6
Check Valves and Gate Valves	PS -01	
Security Fencing	PS -01	
Lockable Wet Well Cover and Dead Front Control Panel	PS -01	11310-4
Area Light	PS -01	
110-Volt Electrical Convenience Outlet	PS -01	11310-5
High Water Alarms: Audible Alarm Visual Alarm Auto-Dialer/Telemetry		
	PS -01	11310-5
	PS -01	11310-5
	PS -01	11310-5
Non-Corrosive Guide Rails/Lift Chains	PS -01	11310-3
All-Weather Access Road	PS -01	11310-1

9. List any equipment (note sheet number of the plans or page number in the specifications) not specifically mentioned above (hoist, odor control equipment, etc.): Hoist PS-01, yard hydrant PS -01
- 
10. a. 100-year flood elevation: 430 +/- feet mean sea level
  - b. Finish grade elevation of the pump station: 475.50 feet
  - c. Measures taken to protect the pump station against flooding (15A NCAC 2H .0219(h)(6)): N/A

Summary of FORCE MAIN to be permitted, by diameter and length:

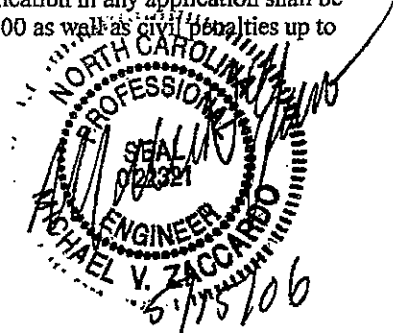
Diameter (inches)	Length (linear feet)	High Elevation (feet)	Discharge Elevation (feet)	Pump-Off Elevation (feet)
8"	5,440	562.00	562.00	462.00

11. Station location of air-release valves (15A NCAC 2H .0219(i)(2)(L)): Road "A" stations 43+50 and 69+90  
 Note: Air-release valves must be provided at all high points along the force main where the elevation difference exceeds 10 feet.

**Professional Engineer's Certification:**

I, Mike Zaccardo, attest that this application for The PARKS at Meadowview Subdivision Phase 1A has been reviewed by me and is accurate, complete and consistent with the information supplied in the engineering plans, calculations, and all other supporting documentation to the best of my knowledge. I further attest that to the best of my knowledge the proposed design has been prepared in accordance with the applicable regulations and Gravity Sewer Minimum Design Criteria for Gravity Sewers adopted February 12, 1996. Although certain portions of this submittal package may have been developed by other professionals, inclusion of these materials under my signature and seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design. Note: In accordance with NC General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application shall be guilty of a Class 2 misdemeanor which may include a fine not to exceed \$10,000 as well as civil penalties up to \$25,000 per violation.

North Carolina Professional Engineer's seal, signature, and date:



**Applicant's Certification:**

I, Michael J. Myers, attest that this application for The PARKS at Meadowview Subdivision Phase 1A has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned to me as incomplete. Note: In accordance with NC General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application shall be guilty of a Class 2 misdemeanor which may include a fine not to exceed \$10,000 as well as civil penalties up to \$25,000 per violation.

Signature: Michael J. Myers

Date: 5-16-06

**State of North Carolina**  
**Department of Environment and Natural Resources**  
**Division of Water Quality**

**INSTRUCTIONS FOR FORM: PSFMGSA 10/99**  
**(PUMP STATIONS, FORCE MAINS, AND GRAVITY SEWERS)**

**The Division of Water Quality will not accept this application unless all the instructions are followed. Plans and specifications must be prepared in accordance with 15A NCAC 2H .0200, Gravity Sewer Minimum Design Criteria, and good engineering practices. Failure to submit all of the required items will lead to additional processing and review time for the permit application.**

*For more information, visit our web site at: [h2o.enr.state.nc.us/ndpu/](http://h2o.enr.state.nc.us/ndpu/)*

- A. Application Form (All Application Packages):**
- ✓ Submit one original and one copy of the completed and appropriately executed application form. The instructions (Pages 1 and 2 of 6) do not need to be submitted. Any changes made to this form will result in the application being returned. The Division of Water Quality (Division) will only accept application packages that have been fully completed with all applicable items addressed.
  - ✓ The project name should be consistent with the project name on the plans, specifications, flow acceptance letters, Operational Agreements, Certificates of Public Convenience and Necessity, etc.
  - ✓ If this project involves a modification of an existing permit, submit one copy of the existing permit.
- B. Attachment (All Application Packages):**
- ✓ Submit the completed and properly executed Form WSCA 10/99 for each watershed within the project location.
- C. Application Fee (All Application Packages):**
- ✓ Submit a check in the amount of \$400 made payable to: North Carolina Department of Environment and Natural Resources (NCDENR).
- D. Cover Letter (All Application Packages):**
- ✓ Submit a cover letter, which lists all items and attachments included in the application package as well as a brief project description.
  - ✓ If necessary for clarity, include attachments to the application form. Such attachments will be considered part of the application package and should be numbered to correspond to the section to which they refer.
- E. Detailed Plans and Specifications (All Application Packages):**
- ✓ Submit two sets of detailed plans and specifications signed, sealed, and dated by a NC Professional Engineer. Specifications for standard equipment may only be omitted for municipalities with approved standard specifications, but use of the standard specifications must be noted on each sheet of the plans.
  - ✓ Plans must include the following minimum items: a general location map, plan and profile views of the sewer extension as well as the proximity of the sewer extension to other utilities and natural features, and detail drawings of all items pertinent to the sewer extension and pump station. Depict minimum separations required in 15A NCAC 2H .0219(i)(2)(G) on the plans, and note the use of ferrous pipe material with joints equivalent to water main standards if minimum separations are not met. Minimum cover over sewer extensions in accordance with 15A NCAC 2H .0219(i)(2)(H) must also be shown clearly on the plans.
  - ✓ Specifications must include, at a minimum, the following for all items pertinent to both the sewer extension and the pump station: quality of construction testing procedures to ensure the integrity of the final product in accordance with 15A NCAC 2H .0205(d)(1)(B), including leakage and pressure testing for the sewer extension. Specifications must require a maximum infiltration rate of 100 gallons per day per inch of pipe diameter per mile of gravity pipe installed in accordance with 15A NCAC 2H .0219(i)(2)(D), and cross connection control for any hydrant conveying potable water to a pump station site.
  - ✓ Plans and specifications must not be labeled with preliminary phrases (e.g., FOR REVIEW ONLY, NOT FOR CONSTRUCTION, etc.) that indicate that they are anything other than final plans and specifications. However, the plans and specifications may be labeled with the phrase: FINAL DESIGN - NOT RELEASED FOR CONSTRUCTION.
- F. Engineering Calculations (All Application Packages):**
- ✓ Submit two copies of all design calculations that have been signed, sealed, and dated by a NC Professional Engineer.
  - ✓ Calculations must include the following minimum items: friction/total dynamic head calculations and system curve analysis (with one pump running, two pumps running, etc.); pump selection information including pump curves, manufacturer's information, and recommended installation guidelines; pump station cycle times and pump run times; minimum velocities in the sewer extension in accordance with 15A NCAC 2H .0219(i)(2)(B); and flotation calculations for the pump station.
- G. Environmental Assessments (May be Required – See 15A NCAC 1C .0100):**
- ✓ Submit one copy of the Findings of No Significant Impact (FONSI) or Environmental Impact Statement (EIS). Also, include information on any mitigating factor(s) from the Environmental Assessment (EA) that impact the construction of the subject sewers. An EA may also be required for private systems if any public funds are used for the construction of the subject sewer.

- H. **Certificates of Public Convenience and Necessity** (Required only if "Public Utility" Checked in Item II.3.):
- ✓ Submit two copies of the Certificate of Public Convenience and Necessity, which demonstrates that the public utility is authorized to hold the utility franchise for the area to be served by the sewer extension.
  - ✓ If a Certificate of Public Convenience and Necessity has not been issued, provide two copies of a letter from the NC Utilities Commission's Public Staff that states that an application for a franchise has been received, that the service area is contiguous to an existing franchised area, and/or that franchise approval is expected.
- I. **Operational Agreements** (Required only if "Homeowners' Association/Developer" Checked in Item II.3.):
- ✓ Submit one original and one copy of a properly executed operational agreement.
  - ✓ If applicant is a homeowners' association, use Form HOA 08/99, and submit the following information: articles of incorporation, bylaws, and current annual budget.
  - ✓ If applicant is a developer, use Form DEV 08/99.
- J. **Flow Acceptance Letters** (Required only if the owner of the Downstream Sewer or WWTF is (are) different from the Applicant):
- ✓ Submit two copies of a flow acceptance letter from the owners(s) of the downstream sewers and WWTF.
  - ✓ Flow acceptance letters must contain the following minimum information: applicant and project name, amount of flow accepted, and name and permit number of the receiving sewers/WWTF. The flow acceptance must not expire prior to permit issuance and must be dated less than a year prior to the application date. Intergovernmental agreements or other contracts will not be accepted in lieu of a project-specific flow acceptance letter.
- K. **Downstream Sewer Evaluations** (All Application Packages):
- ✓ For connection to a gravity sewer, submit an evaluation of the gravity sewer based on peak flow from proposed project and peak flows already tributary to the existing gravity sewer. Provide calculations and detail how existing peak flows were determined.
  - ✓ For connection to a pump station, submit an evaluation of the existing pump station to pump peak flow from proposed project and peak flows already tributary to the existing pump station. Provide calculations and detail how existing peak flows were determined.
  - ✓ For connection to a force main, provide an evaluation of the existing force main based on peak flows from proposed project and peak flows already tributary to the existing force main. In addition, evaluate the ability of each pump station tributary to the existing force main to pump against additional head created by greater flows through the force main. Evaluation may include alternate designs such as telemetry to coordinate pumping between pump stations (provided sufficient storage is available). Also, include an evaluation of the discharge point of the existing force main as described above.
- L. **Reliability** (All Application Packages):
- ✓ If the pump station is to be supplied by a dual electrical source/feed, submit the following minimum information: a letter from the power supplier acknowledging that the pump station site will be supplied by two electrical sources.
  - ✓ If an on-site (stand-by) generator is proposed for installation at the pump station, ensure that the plans and specifications detail the generator, the automatic transfer switch, and how these items interact with the pump station instrumentation/controls.
  - ✓ If a portable (emergency) generator is proposed to fulfill power reliability requirements at the pump station, ensure that the plans and specifications detail the generator quick-connect receptacle, the manual transfer switch, and the telemetry provided as well as how this telemetry interacts with the pump station instrumentation and controls. In addition, submit a contingency plan which details the number of portable generators that the applicant has available for use at the proposed pump station, the number of other items these portable generators are expected to serve, and verification that the portable generators may be moved between items in a way that prevents any sanitary sewer overflows. The plan must also detail procedures for contacting personnel, the number of personnel available to respond to a power outage, and the predicted response time.
  - ✓ If 15A NCAC 2H .0219(h)(3)(D) is intended to fulfill the power reliability requirement, ensure that the plans and specifications detail the storage time available above the high-water alarm as well as how a telemetry device will interact with the pump station instrumentation and control, and submit at least three years of power outage data from the power supplier for the electrical source from which the pump station will be supplied.

**THE COMPLETED APPLICATION PACKAGE, INCLUDING ALL SUPPORTING INFORMATION AND MATERIALS, SHOULD BE SENT TO THE FOLLOWING ADDRESS:**

**NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WATER QUALITY  
NON-DISCHARGE PERMITTING UNIT**

**By U.S. Postal Service:**  
1617 MAIL SERVICE CENTER  
RALEIGH, NORTH CAROLINA 27699-1617

**By Courier/Special Delivery:**  
512 NORTH SALISBURY STREET, SUITE 1219  
RALEIGH, NORTH CAROLINA 27604

**TELEPHONE NUMBER: (919) 733-5083**

**State of North Carolina  
Department of Environment and Natural Resources  
Division of Water Quality**

**PRESSURE SEWERS SYSTEMS**

(For residential simplex grinder pump and STEP systems)

(THIS FORM MAY BE PHOTOCOPIED FOR USE AS AN ORIGINAL)

Application Number: \_\_\_\_\_ (to be completed by DWQ)

1. Applicant's name (name of the municipality, corporation, individual, etc.): \_\_\_\_\_  
Heater Utilities, Inc.
2. Owner's or signing official's name and title (15A NCAC 2H .0206(b)): \_\_\_\_\_  
Michael J. Myers, Manager, Engineering and Compliance
3. Name and complete address of applicant: 202 MacKenan Court  
City: Cary State: NC Zip: 27511  
Telephone number: ( 919 ) 467-8712 ext. 706 Facsimile number: ( 919 ) 460-1788
4. Project name (name of the subdivision, facility or establishment, etc.): \_\_\_\_\_  
The PARKS at Meadowview Subdivision Phase 1A
5. County where project is located: Chatham
6. Fee submitted: \$ \$400.00 (See Instruction C.)
7. Name and complete address of engineering firm: CE Group, Inc., 11000 Regency Parkway, Suite 410  
City: Cary State: NC Zip: 27511  
Telephone number: ( 919 ) 367-8790 ext. 103 Facsimile number: ( 919 ) 367-8791
8. Name and affiliation of contact person who can answer questions about application: \_\_\_\_\_  
Mike Zaccardo, P.E., Project Manager

**II. PERMIT INFORMATION:**

1. Project is:  new; \_\_\_\_\_ modification
2. If this application is being submitted as a result of a modification to an existing permit, provide:  
existing permit number \_\_\_\_\_ and the issuance date \_\_\_\_\_
3. Applicant is: \_\_\_\_\_ public (See Instruction G; skip to item II.4.);  private  
If private, units (lots, townhomes, etc.) are: \_\_\_\_\_ leased (Skip to item II.4.);  sold  
If sold, facilities owned by a:  public utility (See Instruction H.);  
\_\_\_\_\_ homeowners' association/developer (See Instruction I.)
4. If project disturbs more than one acre, provide date when an erosion and sedimentation control plan was  
submitted to the Division of Land Resources for approval: expected submittal date is 5/17/06 to Chat. Co. E/C
5. If project includes any stream or wetland crossings, provide date when Nationwide 12 or 404 permit was  
submitted for approval: submittal was 4/17/06
6. Provide buffers used to maintain compliance with any applicable river basin rules in 15A NCAC 2B .0200  
(e.g., neuse River basin buffer rules): 100' Buffers per Chatham County Ordinance

**III. INFORMATION ON WASTEWATER:**



1. Please provide a one- or two-word description specifying the origin of the wastewater (school, subdivision, hospital, commercial facility, industry, apartments, condominiums, etc.): The PARKS at Meadowview Subdivision - Phase 1A 99 residential lots
2. Volume of wastewater generated by this project: 24,750 gallons per day
3. Explanation of how wastewater flow was determined (15A NCAC 2H .0219(l)): 99 lots @ 250 GPD = 24,750 GPD
4. Nature of wastewater: 100 % Domestic/Commercial;        % Industrial;        % Other waste - specify:
5. If wastewater is industrial in nature:
  - a. Level of pretreatment that has been provided to ensure protection of the receiving collection system and wastewater treatment facility: None
  - b. If a pretreatment permit is required, has one been issued?        Yes;        No. If yes, please attach a copy of the pretreatment permit. If no, provide date application was submitted:

**IV. DESIGN INFORMATION:**

1. Brief project description: The PARKS at Meadowview Subdivision Phase 1A - (99 lots) residential subdivision
2. Owner and name of wastewater treatment facility (WWTF) receiving wastewater (See Instruction J.): Heater Utilities, Inc. - Buck Mountain Reclaimed Wastewater Facility
3. WWTF permit number: WQ0022870
4. List the owner(s) of any intermediate sewers if different from applicant or owner of WWTF (See Instruction J.): None
5. Permit number(s) for sewers immediately downstream: N/A
6. Pipe diameter of sewers immediately downstream: N/A
7. Engineering evaluation of downstream sewers' ability to accept the wastewater from this project (See Instruction K.) is provided on page N/A of the calculations.

**V. PUMP STATION INFORMATION**

1. Number of duplex pump stations provided (See Instruction A.): N/A
2. Number of simplex pump stations provided: 99 stations
3. Provide the volume of storage in the wet well above the pump-on elevation (See Instruction L.): 359 gallons above "High Water Alarm" is greater than 250 gallons
4. a. 100-year flood elevation: 430 +/- feet mean sea level (Dry Creek)
  - b. Measures taken to protect the pump stations against flooding (15A NCAC 2H .0219(h)(6)): All improvements will be above the 100yr. Floodplain of Dry Creek

c. Provide the location of each pump station design element in the engineering plans and/or specifications:

Design Element	Sheet Number of the Plans	Page Number in the Specifications
Wet Well Vent with Screen	UD - 4	2600-6

Check Valves and Gate Valves	UD -4	2600-5
Lockable Wet Well Cover and Dead Front Control Panel	UD -4	2600-5
High Water Alarms:		
Audible Alarm	UD-4	2600-4
Visual Alarm	UD -4	2600-4
Non-Corrosive Guide Rails/Lift Chains	UD -4	2600-5

5. Summary of PRESSURE SEWER to be permitted, by zone:

Zone	From Node	To Node	Diameter (inches)	Length (feet)	# Pumps in Zone	Pump Model Specified for Zone
						The project consists of:
1	J-1	J-15				99 Type "A" Simplex Pumps
2"	3,000		8"	317		
3"	749		10"	2,128		
4"	1,225					
6"	205					

6. For extended travel times (greater than 24 hours), describe odor and corrosion control measures taken: \_\_\_\_\_

Less than 24 hours

7. Station location of air-release valves (15A NCAC 2H .0219(i)(2)(L)): Road "D" station 18+40, Road "E" station 15+30, and Road "F" station 11+90.

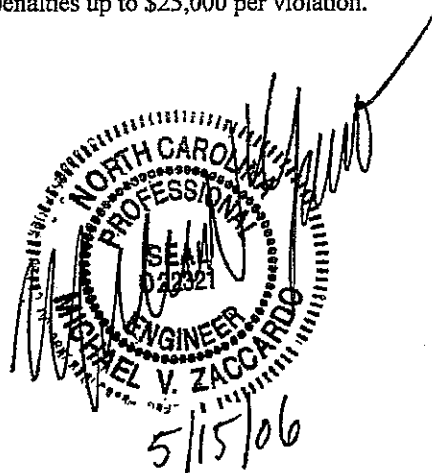
Note: Air-release valves must be provided at all high points along the force main/pressure sewer where the elevation difference exceeds 10 feet.

8. List any equipment (note sheet number of the plans or page number in the specifications) not specifically mentioned above (hoist, odor control equipment, etc.): None

**Professional Engineer's Certification:**

I, Mike Zaccardo, P.E., attest that this application for The PARKS at Meadowview Subdivision Phase 1A has been reviewed by me and is accurate, complete and consistent with the information supplied in the engineering plans, calculations, and all other supporting documentation to the best of my knowledge. I further attest that to the best of my knowledge the proposed design has been prepared in accordance with the applicable regulations and Gravity Sewer Minimum Design Criteria adopted February 12, 1996. Although certain portions of this submittal package may have been developed by other professionals, inclusion of these materials under my signature and seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design. **Note:** In accordance with NC General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application shall be guilty of a Class 2 misdemeanor which may include a fine not to exceed \$10,000 as well as civil penalties up to \$25,000 per violation.

North Carolina Professional Engineer's seal, signature, and date:



**Applicant's Certification:**

I, Michael J. Myers, attest that this application for The PARKS at Meadowview Subdivision Phase 1A has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned to me as incomplete. As the permittee for the pressure sewer system, I understand I will be required to own, maintain, and operate all individual pump stations. **Note:** In accordance with NC General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application shall be guilty of a Class 2 misdemeanor which may include a fine not to exceed \$10,000 as well as civil penalties up to \$25,000 per violation.

Signature: Michael J. Myers

Date: 5-16-06

**State of North Carolina**  
**Department of Environment and Natural Resources**  
**Division of Water Quality**

**INSTRUCTIONS FOR FORM: PSSA 10/99**  
**(PRESSURE SEWER SYSTEMS)**

**The Division of Water Quality will not accept this application unless all the instructions are followed. Plans and specifications must be prepared in accordance with 15A NCAC 2H .0200, Gravity Sewer Minimum Design Criteria, and good engineering practices. Failure to submit all of the required items will lead to additional processing and review time for the permit application.**

*For more information, visit our web site at: [h2o.enr.state.nc.us/ndpw/](http://h2o.enr.state.nc.us/ndpw/)*

- A. **Application Form (All Application Packages):**
- ✓ Submit one original and one copy of the completed and appropriately executed application form. The instructions (Pages 1 and 2 of 6) do not need to be submitted. Any changes made to this form will result in the application being returned. The Division of Water Quality (Division) will only accept application packages that have been fully completed with all applicable items addressed.
  - ✓ The project name should be consistent with the project name on the plans, specifications, flow acceptance letters, Operational Agreements, Certificates of Public Convenience and Necessity, etc.
  - ✓ If this project involves a modification of an existing permit, submit one copy of the existing permit.
  - ✓ This application is for simplex pump stations serving single-family lots only. If the project also includes gravity sewer and/or duplex pump stations, please include Items IV.8., IV.9., and all items in Section V. of Form PSFMGSA 10/99.
- B. **Attachment (All Application Packages):**
- ✓ Submit the completed and properly executed Form WSCA 10/99 for each watershed within the project location.
- C. **Application Fee (All Application Packages):**
- ✓ Submit a check in the amount of \$400 made payable to: North Carolina Department of Environment and Natural Resources (NCDENR).
- D. **Cover Letter (All Application Packages):**
- ✓ Submit a cover letter, which lists all items and attachments included in the application package as well as a brief project description.
  - ✓ If necessary for clarity, include attachments to the application form. Such attachments will be considered part of the application package and should be numbered to correspond to the section to which they refer.
- E. **Detailed Plans and Specifications (All Application Packages):**
- ✓ Submit two sets of detailed plans and specifications signed, sealed, and dated by a NC Professional Engineer. Specifications for standard equipment may only be omitted for municipalities with approved standard specifications, but use of the standard specifications must be noted on each sheet of the plans.
  - ✓ Plans must include the following minimum items: a general location map, plan and profile views of the sewer extension as well as the proximity of the sewer extension to other utilities and natural features, and detail drawings of all items pertinent to the sewer extension (including clean-out locations) and pump stations. Depict minimum separations required in 15A NCAC 2H .0219(i)(2)(G) on the plans, and note the use of ferrous pipe material with joints equivalent to water main standards if minimum separations are not met. Minimum cover over sewer extensions in accordance with 15A NCAC 2H .0219(i)(2)(H) must also be shown clearly on the plans. All nodes/zones listed in calculations and computer models must be accurately reflected on the plans. The plans must include (in table form or on subdivision layout) lot numbers, zones, approximate pump and top of wet well elevations, and pump model number and capacity.
  - ✓ Specifications must include, at a minimum, the following for all items pertinent to both the sewer extension and pump stations: quality of construction testing procedures to ensure the integrity of the final product in accordance with 15A NCAC 2H .0205(d)(1)(B) including leakage and pressure testing for the sewer extension. Specifications must require a maximum infiltration rate of 100 gallons per day per inch of pipe diameter per mile of gravity pipe installed in accordance with 15A NCAC 2H .0219(i)(2)(D), and cross connection control for any hydrant conveying potable water to a pump station site.
  - ✓ Plans and specifications must not be labeled with preliminary phrases (e.g., FOR REVIEW ONLY, NOT FOR CONSTRUCTION, etc.) that indicate that they are anything other than final plans and specifications. However, the plans and specifications may be labeled with the phrase: FINAL DESIGN - NOT RELEASED FOR CONSTRUCTION.
- F. **Engineering Calculations (All Application Packages):**
- ✓ Submit two copies of all design calculations that have been signed, sealed, and dated by a NC Professional Engineer.
  - ✓ Calculations must include the following minimum items: friction/total dynamic head calculations and system curve analysis (with one pump running, two pumps running, etc.); pump selection information including pump curves, manufacturer's information, and recommended installation guidelines; pump station cycle times and pump run times; minimum velocities in the sewer extension in accordance with 15A NCAC 2H .0219(i)(2)(B); and flotation calculations for the pump station.
  - ✓ If computer models are provided to document system design, the model and corresponding node/zone nomenclature must clearly and accurately reflect the plans and specifications.

- G. **Environmental Assessments** (May be Required – See 15A NCAC 1C .0100):
- ✓ Submit one copy of the Findings of No Significant Impact (FONSI) or Environmental Impact Statement (EIS). Also, include information on any mitigating factor(s) from the Environmental Assessment (EA) that impact the construction of the subject sewers. An EA may also be required for private systems if any public funds are used for the construction of the subject sewer.
- H. **Certificates of Public Convenience and Necessity** (Required only if “Public Utility” Checked in Item II.3.):
- ✓ Submit two copies of the Certificate of Public Convenience and Necessity, which demonstrates that the public utility is authorized to hold the utility franchise for the area to be served by the sewer extension.
  - ✓ If a Certificate of Public Convenience and Necessity has not been issued, provide two copies of a letter from the NC Utilities Commission’s Public Staff that states that an application for a franchise has been received, that the service area is contiguous to an existing franchised area, and/or that franchise approval is expected.
- I. **Operational Agreements** (Required only if “Homeowners’ Association/Developer” Checked in Item II.3.):
- ✓ Submit one original and one copy of a properly executed operational agreement.
  - ✓ If applicant is a homeowners’ association, use Form HOA 08/99, and submit the following information: articles of incorporation, bylaws, and current annual budget.
  - ✓ If applicant is a developer, use Form DEV 08/99.
- J. **Flow Acceptance Letters** (Required only if the Owner(s) of the Downstream Sewer or WWTF is (are) Different from the Applicant):
- ✓ Submit two copies of a flow acceptance letter from the owners(s) of the downstream sewers and WWTF.
  - ✓ Flow acceptance letters must contain the following minimum information: applicant and project name, amount of flow accepted, and name and permit number of the receiving sewers/WWTF. The flow acceptance must not expire prior to permit issuance and must be dated less than a year prior to the application date. Intergovernmental agreements or other contracts will not be accepted in lieu of a project-specific flow acceptance letter.
- K. **Downstream Sewer Evaluations** (All Application Packages):
- ✓ For connection to a gravity sewer, submit an evaluation of the gravity sewer based on peak flow from proposed project and peak flows already tributary to the existing gravity sewer. Provide calculations and detail how existing peak flows were determined.
  - ✓ For connection to a pump station, submit an evaluation of the existing pump station to pump peak flow from proposed project and peak flows already tributary to the existing pump station. Provide calculations and detail how existing peak flows were determined.
  - ✓ For connection to a force main/pressure sewer, provide an evaluation of the existing system based on peak flows from proposed project and peak flows already tributary to the existing system. In addition, evaluate the ability of each pump station tributary to the existing system to pump against additional head created by greater flows through the system. Evaluation may include alternate designs such as telemetry to coordinate pumping between pump stations (provided sufficient storage is available). Also, include an evaluation of the discharge point of the existing force main/pressure sewer as described above.
- L. **Reliability** (All Application Packages):
- ✓ Reliability in simplex pump stations must be addressed by providing at least 24 hours storage in the wet well above the pump-on elevation. This storage requirement is used to meet the intent of 15A NCAC 2H .0219(h)(2) and 15A NCAC 2H .0219(h)(3) to prevent impacts on downslope surface waters should a power failure or pump failure occur at the pump station.

**THE COMPLETED APPLICATION PACKAGE, INCLUDING ALL SUPPORTING INFORMATION AND MATERIALS, SHOULD BE SENT TO THE FOLLOWING ADDRESS:**

**NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WATER QUALITY  
NON-DISCHARGE PERMITTING UNIT**

**By U.S. Postal Service:  
1617 MAIL SERVICE CENTER  
RALEIGH, NORTH CAROLINA 27699-1617**

**By Courier/Special Delivery:  
512 NORTH SALISBURY STREET, SUITE 1219  
RALEIGH, NORTH CAROLINA 27604**

**TELEPHONE NUMBER: (919) 733-5083**



AUG 07 2006

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

MICHAEL F. BASLEY,  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

August 3, 2006

Chatham County

County Driveway Permit File Number 19-675

Subject: Commercial Driveway Permit Application with Entrance onto SR 1520  
(The Parks At Meadowview, LLC Subdivision)

Mr. Allen Harrington  
The Parks at Meadowview, LLC  
8450 Falls of the Neuse Rd., Suite 102  
Raleigh, NC 27615

Dear Mr. Harrington:

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 1520 is to be constructed in accordance with the attached detail sheet.
2. The entrance onto SR 1520 shall be paved for at least 50' along the centerline of the entrances.
3. The entrance onto SR 1520 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 1520.
5. Any areas inside the right of way disturbed during construction shall be seeded and mulched immediately upon completion of construction
6. This Driveway Permit Accompanies Enc. # 19-3291

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



SIGNATURES OF APPLICANT

PROPERTY OWNER (APPLICANT)  
COMPANY The Parks at Meadowview, LLC  
SIGNATURE [Signature]  
ADDRESS 8450 Falls of the Neuse Road Suite 102  
NC, 27615 Phone No. 9198475004

WITNESS  
NAME DAVID H. TURNER  
SIGNATURE [Signature]  
ADDRESS 8450 FALLS OF NEUSE RD #102  
RALEIGH NC 27615

AUTHORIZED AGENT  
COMPANY The Parks at Meadowview, LLC  
SIGNATURE [Signature] Allen Herring  
ADDRESS 8450 Falls of the Neuse Road Suite 102  
NC, 27615 Phone No. 9198475004

WITNESS  
NAME DAVID H. TURNER  
SIGNATURE [Signature]  
ADDRESS SAME AS ABOVE

APPROVALS

APPLICATION RECEIVED BY DISTRICT ENGINEER

[Signature] [Signature]  
SIGNATURE DATE 7-10-06

APPLICATION APPROVED BY LOCAL GOVERNMENTAL AUTHORITY (when required)

\_\_\_\_\_  
SIGNATURE TITLE DATE

APPLICATION APPROVED BY DISTRICT ENGINEER

[Signature] [Signature]  
SIGNATURE DATE 8-3-06

INSPECTION BY NCDOT

\_\_\_\_\_  
SIGNATURE TITLE DATE

COMMENTS:

Public roadway entrance for 739-Lot Single Family Subdivision





AUG 07 2006

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

P.O. BOX 25201, RALEIGH, N.C. 27611-5201

LYNDO TIPPETT  
SECRETARY

August 3, 2006

Mr. Allen Harrington  
The Parks at Meadowview, LLC  
8450 Falls of the Neuse Rd., Suite 102  
Raleigh, NC 27615

And

Mr. Mike Meyers  
Heater Utilities, Inc.  
202 Mackenan Dr.  
Cary, NC 27511

**SUBJECT: ENCROACHMENT AGREEMENT (16.6) (19-3292)**  
**12" DIP Water Main Tap**  
**SR 1520**  
**Chatham County**


Dear Mr. Harrington & Mr. Meyers:

Attached is a properly executed copy of a Right of Way Encroachment Agreement, which covers the following:

12" DIP Water Main Tap on SR 1520 in Chatham County

This agreement is approved subject to the Special Provisions, which are attached to and made a part of the Encroachment Agreement.

Sincerely

  
Timothy Johnson, P.E.  
Division Engineer



TJ/jek

Attachments

Cc: Robert Memory, State Utility Agent, Utility Coordination Unit (w/orig.)  
R. E. Blakley, P.E., District Engineer  
file

(19-3292)

ROUTE SR 1520 PROJECT The Parks at Meadowview COUNTY OF STATE OF NORTH CAROLINA Chatham

DEPARTMENT OF TRANSPORTATION

THREE PARTY RIGHT OF WAY  
ENCROACHMENT AGREEMENT ON  
PRIMARY AND SECONDARY SYSTEM

-AND-  
The Parks at Meadowview, LLC

8450 Falls of Neuse Rd. Raleigh, NC 27615

-AND-

Heater Utilities, Inc.

202 Mackenan Drive. Cary, NC 27511

THIS AGREEMENT, made and entered into this the 3<sup>rd</sup> day of August, 20 06, by and between the Department of Transportation, party of the first part; and The Parks at Meadowview, LLC party of the second part; and Heater Utilities, Inc. party of the third part,

WITNESSETH

THAT WHEREAS, the party of the second part desires to encroach on the right of way of the public road designated as Route(s) SR 1520, located 5,500 feet north of the intersection of SR 1520 and SR 1516 toward SR 1545

with the construction and/or erection of: +/- 15 linear feet 8" DIP water main with a 12"x8" tapping sleeve and valve to tap existing 12" DIP water main within Right-of-way.

WHEREAS, it is to the material advantage of the party of the second part to effect this encroachment, and the party of the first part in the exercise of authority conferred upon it by statute, is willing to permit the encroachment within the limits of the right of way as indicated, subject to the conditions of this agreement;

NOW, THEREFORE, IT IS AGREED that the party of the first part hereby grants to the party of the second part the right and privilege to make this encroachment as shown on attached plan sheet(s), specifications and special provisions which are made a part hereof upon the following conditions, to wit:

That the installation, operation, and maintenance of the above described facility will be accomplished in accordance with the party of the first part's latest POLICIES AND PROCEDURES FOR ACCOMMODATING UTILITIES ON HIGHWAY RIGHTS-OF-WAY, and such revisions and amendments thereto as may be in effect at the date of this agreement. Information as to these policies and procedures may be obtained from the Division Engineer or State Utility Agent of the party of the first part.

That the said party of the second part binds and obligates himself to install and maintain the encroaching facility in such safe and proper condition that it will not interfere with or endanger travel upon said highway, nor obstruct nor interfere with the proper maintenance thereof, to reimburse the party of the first part for the cost incurred for any repairs or maintenance to its roadways and structures necessary due to installation and existence of the facilities of the party of the second part, and if at any time the party of the first part shall require the removal of or changes in the location of the said facilities, that the said party of the second part binds himself, his successors and assigns, to promptly remove or alter the said facilities, in order to conform to the said requirement, without any cost to the party of the first part.

That the party of the second part agrees to provide during construction and any subsequent maintenance proper signs, signal lights, flagmen and other warning devices for the protection of traffic in conformance with the latest 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 Division Engineer of the party of the first.

That the party of the second part hereby agrees to indemnify and save harmless the party of the first part from all damages and claims for damage that may arise by reason of the installation and maintenance of this encroachment.

That the party of the second part agrees to restore all areas disturbed during installation and maintenance to the satisfaction of the Division Engineer of the party of the first part. The party of the second part agrees to exercise every reasonable precaution during construction and maintenance to prevent eroding of soil; silting or pollution of rivers, streams, lakes, reservoirs, other water impoundments, ground surfaces or other property; or pollution of the air. There shall be compliance with applicable rules and regulations of the North Carolina Division of Environmental Management, North Carolina Sedimentation Control Commission, and with ordinances and regulations of various counties, municipalities and other official agencies relating to pollution prevention and control. When any installation or maintenance operation disturbs the ground surface and existing ground cover, the party of the second part agrees to remove and replace the soil or otherwise reestablish the grass cover to meet the satisfaction of the Division Engineer of the party of the first part.

That the party of the second part agrees to assume the actual cost of any inspection of the work considered to be necessary by the Division Engineer of the party of the first part.

That the party of the second part agrees to have available at the construction site, at all times during construction, a copy of this agreement showing evidence of approval by the party of the first part. The party of the first part reserves the right to stop all work unless evidence of approval can be shown.

Provided the work contained in this agreement is being performed on a completed highway open to traffic; the party of the second part agrees to give written notice to the Division Engineer of the party of the first part when all work contained herein has been completed. Unless specifically requested by the party of the first part, written notice of completion of work on highway projects under construction will not be required.

That in the case of noncompliance with the terms of this agreement by the party of the second part, the party of the first part reserves the right to stop all work until the facility has been brought into compliance or removed from the right of way at no cost to the party of the first part.

That it is agreed by both parties that this agreement shall become void if actual construction of the work contemplated herein is not

begun within one (1) year from the date of authorization by the party of the first part unless written waiver is secured by the party of the second part from the party of the first part.

During the performance of this contract, the second party, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor"), agrees as follows:

- a. **Compliance with Regulations:** The contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the U. S. Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- b. **Nondiscrimination:** The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- c. **Solicitations for Subcontracts, including Procurements of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.
- d. **Information and Reports:** The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Department of Transportation or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the Department of Transportation, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.
- e. **Sanctions for Noncompliance:** In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the Department of Transportation shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to,
  - (1) withholding of payments to the contractor under the contract until the contractor complies, and/or
  - (2) cancellation, termination or suspension of the contract, in whole or in part.
- f. **Incorporation of Provisions:** The contractor shall include the provisions of paragraphs "a" through "f" in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Department of Transportation or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Department of Transportation to enter into such litigation to protect the interests of the State, and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

That when title to the subject that constitutes the aforesaid encroachment passes from the party of the second part and vests in the party of the third part, the party of the third part agrees to assume all responsibilities and rights and to perform all obligations as agreed to herein by the party of the second part.

RAW (166) : Party of the Second Part certifies that this agreement is true and accurate copy of the form RAW (166) incorporating all revisions to date.

IN WITNESS WHEREOF, each of the parties to this agreement has caused the same to be executed the day and year first above written.

WITNESS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

WITNESS: \_\_\_\_\_  
 \_\_\_\_\_  
 Aqua North Carolina, Inc.  
 202 Mackenan Court  
 Cary, North Carolina 27511

DEPARTMENT OF TRANSPORTATION <sup>(DEK)</sup>  
 BY: Walter Wilson  
 DIVISION ENGINEER

\_\_\_\_\_  
 The Parks at Meadowview, LLC  
 8450 Falls of Neuse Road Suite 102  
 Raleigh, NC 27615

Second Party  
 Michael Myers  
 \_\_\_\_\_  
 Heater Utilities, Inc.  
 202 Mackenan Drive  
 Cary, N.C. 27511  
 Third Party

**ENCROACHMENT SPECIAL PROVISIONS**  
**THE PARKS at MEADOWVIEW, LLC & HEATER UTILITIES, INC**  
**19-3292 (CHATHAM)**

*Approval of the encroachment agreement is made subject to the following Special Provisions:*

1. Changes noted in red on the plans shall be incorporated into and made a part of the encroachment agreement. An executed copy of the encroachment agreement shall be available at the construction site at all times. NCDOT reserves the rights to stop all work unless evidence of approval can be shown.
2. Notify the following prior to beginning work:
  - *B.F. Sloan, County Maintenance Engineer*  
1404 E. Raleigh St.  
Siler City, N.C. 27344  
(919) 742-3431
3. The encroaching party shall comply with all applicable federal, state and local environmental regulations, and shall obtain all necessary federal, state and local environmental permits, including but not limited to, those related to sediment control, stormwater, wetland, streams, endangered species, and historical sites.
4. All materials and construction shall be in accordance with NCDOT standards and specifications, including but not limited to the NCDOT Standard Specifications for Roads and Structures 2006, the NCDOT Roadway Standards Drawings, and NCDOT Policies and Procedures for Accommodating Utilities on Highway Rights of Way.
5. It shall be the responsibility of the Encroacher to determine the location of other utilities within the encroachment area in accordance with General Statute 87-102. The Encroacher shall be responsible for notifying other utility owners and providing protection and safeguards to prevent damage or interruption to existing facilities and to maintain accessibility to existing utilities. Costs to repair, restore, or relocate existing utilities due to this encroachment shall be the responsibility of the encroaching party.
6. NCDOT does not guarantee the Right of Way on this road, nor will it be responsible for any claim for damages brought by any property owner by reason of this encroachment. All Right of Way and easements necessary for construction and maintenance shall be dedicated to NCDOT with the proof of dedication furnished to the District Engineer prior to beginning work. Encroachment within the Right of Way does not imply approval for encroachment onto adjacent property. The Encroacher shall be responsible for securing any easement, permit, permission, or approval for encroachment or other use of property outside the state maintained right of way. Right of Way monuments disturbed during construction shall be referenced by a Professional Land Surveyor and reset immediately after construction.
7. The encroaching Party shall take whatever measures are necessary to minimize soil erosion and siltation, water pollution, and air pollution. It shall be the responsibility of the Encroaching Party to keep fully informed to comply with the applicable regulations of all legally constituted authorities relating to pollution prevention and control. In the event of conflict between regulations, specifications, or requirements, the more restrictive requirement shall apply. All erosion and pollution control devices and measures shall be constructed, installed, maintained and removed by the encroaching party in accordance with all applicable Federal, State and Local laws, regulations, ordinances, and policies. No construction shall begin until all erosion control devices have been installed to the satisfaction of the District Engineer. Failure to comply with this provision shall be grounds for immediate suspension of all activities within the Right of Way.
8. Storage of materials or equipment within the Right of Way is prohibited. During non-working hours, equipment shall be parked as close to the right of way line as possible and shall be properly barricaded so that no equipment obstruction shall be within the Clear Recovery Area.
9. Construction equipment or vehicles shall not be parked on the pavement or roadway shoulder.

10. Construction is authorized to perform on Monday through Friday during the hours between sunrise and sunset.
11. The encroaching party may delegate the performance of certain provisions of this agreement to contractors or other parties. However, this shall not in any way release the encroaching party from its obligations to the terms and provisions of the encroachment.
12. Written notification shall be provided to the District Engineer upon completion of the work proposed under this agreement. Materials test frequencies and methods shall be in conformance with the NCDOT Materials and Tests guidelines, or as directed by NCDOT. A letter of approval, or recommendations for compliance, will be provided upon receipt and review of test reports.
13. The traveling public shall be warned of construction with complete and proper signing and traffic control devices in accordance with the current Manual on Uniform Traffic Control Devices (MUTCD). No work shall be performed in the Right of Way unless this requirement is satisfied. NCDOT reserves the right to require a written traffic control plan for encroachment operations. Traffic control devices and operations shall include, but are not limited to the following:
  - Adequate and appropriate advance warning signs for any and all work zones, closed or obstructed areas.
  - "End Construction" signage beyond the end of all work zones.
  - Adequate and appropriate delineation and control devices for all work zone areas including but not limited to lane closures, disturbed areas, and active work sites.
  - Properly trained and equipped flagmen.
  - Proper maintenance of all traffic control devices, including but not limited to proper signage and controls during periods of inactivity and removal of inappropriate traffic control signage and/or devices.
14. Traffic shall not be detoured or rerouted. Two way traffic shall be maintained at all times.
15. The Traffic Services Supervisor shall be notified at (910) 947-3930 in Carthage, NC, prior to beginning work on the Right of Way if there are existing NCDOT signs, traffic signals, or signal equipment in or near the proposed work zone. Costs to relocate, replace, or repair NCDOT signs, signals, or associated equipment shall be the responsibility of the Encroacher.
16. Ingress and egress shall be maintained to businesses and dwellings. Driveways altered during construction shall be restored to a condition equal to that prior to beginning construction.
17. Excavated material shall not be placed on the paved roadway surface at any time unless specifically approved by the District Engineer. Drainage structures shall not be blocked with excavated material at any time.
18. Trenches/excavations/bore pits shall not remain open longer than a 24-hour period. No trench/excavation/bore pit shall be left open overnight except in the event of emergency, in which case the encroacher shall notify the District Engineer and inform him as to the nature and anticipated duration of the emergency. Any excavation left open overnight due to emergency shall be protected and delineated with complete, adequate and appropriate safety and traffic control devices.
19. All backfill shall meet the Statewide Borrow Criteria and shall be placed in accordance with section 300-6 of NCDOT Standard Specifications for Roads and Structures 2006. Backfill material shall be free from rocks and debris placed in six-inch loose layers and compacted to at least 95% of standard density as determined by AASHTO Method T-99 as modified by NCDOT. Backfill material placed within eight (8) inches of the pavement subgrade shall be compacted to 100% of standard density. (Copies of these testing procedures are available on request from the NCDOT Materials and Tests Unit.) Each layer must be fully compacted by an approved mechanical tamp before the next layer is placed.
20. Excavated areas adjacent to pavement having more than a 2 inch drop shall be backfilled and made safe with a 6:1 or flatter slope and shall be designated by appropriate delineation during periods of construction inactivity including, but not limited to, night and weekend hours.

21. When burying around the end of a pipe, culvert, or bridge, the utility shall be located a minimum of five (5) feet from the nearest part of the pipe, culvert, or bridge, and buried to a minimum depth of five (5) feet below the streambed. At points where the utility is placed under existing storm drains by trenching, the trench shall be backfilled with Class M concrete up to the outside diameter of the existing pipe.
22. Drainage structures and systems shall be preserved and protected. Any structure that is disturbed or damaged during construction shall be immediately restored to its original condition at no expense to the Department of Transportation. All utility installations shall be designed and constructed so as not to hinder, disrupt or interfere with existing storm drainage. All facilities shall pass over or under highway drainage facilities.
23. The dry bore method of boring shall be utilized and made perpendicular to the roadway. Any bore exceeding 6 inches shall be encased.
24. The grade of top of pipe or casing shall provide the following minimum bury:
  - Crossing under roadways - 3 feet from pavement surface
  - Longitudinal installations - 3 feet from finished grade
  - Crossing under ditches - 2 feet from ditch line
25. Hydrants shall be placed behind the roadway ditch and as near the right of way line as possible.
26. All service connections shall be bored unless construction is of ductile iron or equal quality material with satisfactory leakproof joints.
27. All blow-off assemblies shall be directed away from any travel lane.
28. All blow-off valves, vaults, manholes and other appurtenances within the NCDOT right of way shall be located behind the ditch and at the right of way line. Manholes and/or vaults shall not be placed in the ditch line, side slopes of ditches or in the pavement.
29. All manholes and/or vaults shall be of an NCDOT pre-approved design. Manholes or vaults shall be designed for HS-20 live loads and conform to the NCDOT Standard Specifications for Roads and Structures 2006, the NCDOT Roadway Standards Drawings. Any proposed structure which is not of a design pre-approved by NCDOT shall be submitted to NCDOT with details and design calculations sealed by a Professional Engineer for approval prior to construction. A list of approved structures may be obtained from NCDOT Design Services at 919-250-4128.
30. Manhole rings and covers and valve covers shall be a traffic bearing type designed for HS-20 loading and approved for use within NCDOT right of ways. All such appurtenances shall be installed flush to or below the surface of the ground in such a manner that they do not pose obstacles or obstructions to pedestrians, vehicles, equipment, or roadway maintenance operations.
31. Manholes/Valves should not be located in the pavement or shoulders of any State road. Exceptions may be made on roads at those locations where manholes/valves are essential parts of existing lines that are permitted to remain in place under existing and proposed roadways. Every effort should be made to minimize such installations and to avoid their locations in wheel paths or street intersections, insofar as practicable. Manholes should be designed and located in such a manner that will cause the least interference with roadway users, other utilities, and future highway expansion.
32. Where an installation is by open cut, the pavement shall be neatly sawed or cut perpendicular to the surface. The replacement base and surface shall extend a minimum of one foot beyond the excavated opening on each side and shall be equivalent to the original base and pavement or the design as stated in the encroachment agreement, whichever is greater. The minimum pavement design for pavements on secondary roads shall be:
  - Flowable fill to within 3" of finished grade
  - 3 inches Asphalt Surface Course – S9.5B
33. All disturbed soil areas shall be promptly seeded and mulched. The encroaching party shall obtain the District Engineer's approval of ditch and shoulder grading prior to seeding and mulching.

34. All earth areas shall be regraded, seeded and mulched in accordance with Section 1660 of the NCDOT Standard Specifications for Roads and Structures 2006. The Engineer shall make final determination of soil type. The following rates in pounds per acre apply:

- *YEAR ROUND MIXTURE (Sandy Soils)*
  - KY 31 Tall Fescue or Alta Tall Fescue – 50 pounds
  - Pensacola Bahiagrass – 50 pounds
  - Centipede – 5 pounds
  - Fertilizer (10-20-20 analysis) – 500 pounds
  - Limestone – 4000 pounds
- *YEAR ROUND MIXTURE (Clay Soils)*
  - KY 31 Tall Fescue or Alta Tall Fescue – 100 pounds
  - Kenblue Bluegrass – 15 pounds
  - Fertilizer (10-20-20 analysis) – 500 pounds
  - Limestone – 4000 pounds
- Add 10 pounds of Kobe or Korean Lespedeza and 10 pounds of 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 may be used provided the 1-2-2 ratio is maintained and the rate of application is adjusted to provide the same amount of plant food as a 10-20-20 analysis.

35. Notify the County Maintenance Engineer's office at (919) 742-3431, 1404 E. Raleigh St. Siler City, N.C. 27344, prior to beginning work. The encroaching party shall provide the County Maintenance Engineer with the following information at least 3 working days prior to commencing operations:

- Proposed schedule of operations
- The name(s) and phone number(s) of project contact person(s). (See Special Provision 12)

# WorkCentre Pro 133

## Job History Report

Date/Time : 08/11/2006 07:40 AM

Page : 1

Date	Time	Input Source	Output Destination	Job Info	Page Info	Pages	Sheets	Job Status
08/11/2006	06:57:01 AM	Report/List	Center Output Tray	1 Sided	8.5 x 11" Plain	2	2	Completed
08/11/2006	06:57:24 AM	Port9100:CROWEN	Center Output Tray	1 Up:1 Sided:PCI6	8.5 x 11" Plain	1	1	Completed
08/11/2006	06:58:10 AM	Port9100:CROWEN	Center Output Tray	1 Up:1 Sided:PCI6	8.5 x 11" Plain	1	1	Completed
08/11/2006	06:58:36 AM	Port9100:CROWEN	Center Output Tray	1 Up:1 Sided:PCI6	8.5 x 11" Plain	5	5	Completed
08/11/2006	06:59:05 AM	Port9100:CROWEN	Center Output Tray	1 Up:1 Sided:PCI6	8.5 x 11" Plain	5	5	Completed
08/11/2006	06:59:24 AM	Port9100:CROWEN	Center Output Tray	1 Up:1 Sided:PCI6	8.5 x 11" Plain	1	1	Completed
08/11/2006	06:59:52 AM	Port9100:CROWEN	Center Output Tray	1 Up:1 Sided:PCI6	8.5 x 11" Plain	4	4	Completed
08/11/2006	07:00:21 AM	Port9100:CROWEN	Center Output Tray	1 Up:1 Sided:PCI6	8.5 x 11" Plain	4	4	Completed
08/11/2006	07:00:36 AM	Port9100:CROWEN	Center Output Tray	1 Up:1 Sided:PCI6	8.5 x 11" Plain	2	2	Completed
08/11/2006	07:02:08 AM	Port9100:CROWEN	Center Output Tray	1 Up:1 Sided:PCI6	8.5 x 11" Plain	1	1	Completed
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08/11/2006	07:16:01 AM	Scanner	Fax Send	Doc. No. 9972				Completed
08/11/2006	07:16:15 AM	Report/List	Center Output Tray	1 Sided	8.5 x 11" Plain	1	1	Completed
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08/11/2006	07:19:18 AM	Port9100:NBRADSHAW	Center Output Tray	1 Up:1 Sided:PCI6	8.5 x 11" Plain	6	6	Completed

Completed with error(016-720):PCL Command Error



# WorkCentre Pro 133

## Job History Report

Date/Time : 08/11/2006 07:40 AM  
Page : 2(Last Page)

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08/11/2006	07:40:27 AM	Port9100:NBRADSHAW	Center Output Tray	1 Up:1 Sided:PCL6	8.5 x 11" Plain	3	3	Completed



AUG 07 2006

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

P.O. BOX 25201, RALEIGH, N.C. 27611-5201

LYNDO TIPPETT  
SECRETARY

August 3, 2006

Mr. Allen Harrington  
The Parks at Meadowview, LLC  
8450 Falls of the Neuse Rd.  
Suite 102  
Raleigh, NC 27615

**SUBJECT: ENCROACHMENT AGREEMENT (19-3291)**  
**Widening for left and right turn lanes**  
**SR 1520**  
**Chatham County**

Dear Mr. Harrington,

Attached is a properly executed copy of a Right of Way Encroachment Agreement which covers the following:

Widening for left and right turn lanes on SR 1520 in Chatham Co.

This agreement is approved subject to the Special Provisions which are attached to and made a part of the Encroachment Agreement. This encroachment agreement accompanies driveway permit # 19-675.

Sincerely,

Timothy Johnson, P.E.  
Division Engineer

TJ:jek

Attachments

Cc: Robert Memory, State Utility Agent, Utility Coordination Unit (w/orig.)  
R. E. Blakley, P.E., District Engineer (19-3291)

**ENCROACHMENT SPECIAL PROVISIONS**  
**THE PARKS at MEADOWVIEW, LLC SUBDIVISION**  
**19-3291 (CHATHAM)**

*Approval of the encroachment agreement is made subject to the following Special Provisions:*

1. Changes noted in red on the plans shall be incorporated into and made a part of the encroachment agreement. An executed copy of the encroachment agreement shall be available at the construction site at all times. NCDOT reserves the right to stop all work unless evidence of approval can be shown.
2. Notify the following prior to beginning work:
  - *B.F. Sloan, County Maintenance Engineer*  
1404 E Raleigh St.  
Siler City, N.C. 27344  
(919) 742-3431
3. The encroaching party shall comply with all applicable federal, state and local environmental regulations, and shall obtain all necessary federal, state and local environmental permits, including but not limited to, those related to sediment control, stormwater, wetland, streams, endangered species, and historical sites.
4. All materials and construction shall be in accordance with NCDOT standards and specifications, including but not limited to the NCDOT Standard Specifications for Roads and Structures 2006, the NCDOT Roadway Standards Drawings, and NCDOT Policies and Procedures for Accommodating Utilities on Highway Rights of Way.
5. It shall be the responsibility of the Encroacher to determine the location of other utilities within the encroachment area in accordance with General Statute 87-102. The Encroacher shall be responsible for notifying other utility owners and providing protection and safeguards to prevent damage or interruption to existing facilities and to maintain accessibility to existing utilities. Costs to repair, restore, or relocate existing utilities due to this encroachment shall be the responsibility of the encroaching party.
6. NCDOT does not guarantee the Right of Way on this road, nor will it be responsible for any claim for damages brought by any property owner by reason of this encroachment. All Right of Way and easements necessary for construction and maintenance shall be dedicated to NCDOT with the proof of dedication furnished to the District Engineer prior to beginning work. Encroachment within the Right of Way does not imply approval for encroachment onto adjacent property. The Encroacher shall be responsible for securing any easement, permit, permission, or approval for encroachment or other use of property outside the state maintained right of way. Right of Way monuments disturbed during construction shall be referenced by a Professional Land Surveyor and reset immediately after construction.
7. The encroaching Party shall take whatever measures are necessary to minimize soil erosion and siltation, water pollution, and air pollution. It shall be the responsibility of the Encroaching Party to keep fully informed to comply with the applicable regulations of all legally constituted authorities relating to pollution prevention and control. In the event of conflict between regulations, specifications, or requirements, the more restrictive requirement shall apply. All erosion and pollution control devices and measures shall be constructed, installed, maintained and removed by the encroaching party in accordance with all applicable Federal, State and Local laws, regulations, ordinances, and policies. No construction shall begin until all erosion control devices have been installed to the satisfaction of the District Engineer. Failure to comply with this provision shall be grounds for immediate suspension of all activities within the Right of Way.
8. A \$100,000 Performance and Indemnity Bond shall be executed and posted with the District Engineer prior to beginning any work on the Right of Way. The required bond may be executed in any of the following methods.
  - Cash bond in the form of a certified check payable to the North Carolina Department of Transportation.

- Performance and indemnity bond underwritten by a surety company legally authorized to do business in North Carolina.
  - Continuing bond for the performance of work within the NCDOT Right of Ways.
  - Cashiers check or bank letter of credit (2 copies with original signature) in the amount of the bond.
  - The Bond shall be submitted to the District Engineer, North Carolina Department of Transportation, P.O. Box 1164 Asheboro N.C. 27204. Please identify the Encroachment Agreement by including File # 19-3291 on the Bond.
9. Bonds shall remain in effect for a period of one (1) year following completion of the job. The encroaching party shall notify the District Engineer in writing when all work within the Right of Way has been completed. Upon receipt of written notification, the District Engineer will inspect the project and provide certification that the project has been completed. When the project has been satisfactorily completed for one year the bonding company shall submit a written request along with a copy of the encroachment authorization to the District Engineer for release of the Bond. The Bond will be released upon satisfactory final inspection, review, and approval by the District Engineer.
  10. In the event this encroachment is constructed under multiple contracts and the bond requirement is delegated to the contractor or contractors, separate bonds may be posted. The amount of the bond secured by each contractor shall be proportional to the length and size of the contract. The bond will be held for a period of one (1) year following completion of the contract.
  11. No work shall commence until all Bond requirements have been satisfied.
  12. Storage of materials or equipment within the Right of Way is prohibited. During non-working hours, equipment shall be parked as close to the right of way line as possible and shall be properly barricaded so that no equipment obstruction shall be within the Clear Recovery Area.
  13. Construction equipment or vehicles shall not be parked on the pavement or roadway shoulder.
  14. Construction is authorized to be performed on Monday through Friday during the hours between sunrise and sunset.
  15. The encroaching party may delegate the performance of certain provisions of this agreement to contractors or other parties. However, this shall not in any way release the encroaching party from its obligations to the terms and provisions of the encroachment.
  16. Written notification shall be provided to the District Engineer upon completion of the work proposed under this agreement. Materials test frequencies and methods shall be in conformance with the NCDOT Materials and Tests guidelines, or as directed by NCDOT. A letter of approval, or recommendations for compliance, will be provided upon receipt and review of test reports.
  17. The encroaching party or the contractor(s) for the encroaching party may request a written letter stating that the encroachment has been satisfactorily completed by making a request in writing to the appropriate County Maintenance Engineer. The letter of completion does not relieve the encroaching party from any obligations or responsibilities under the terms and provisions of the encroachment or from obligations or responsibilities for making repairs needed for a reasonable time period.
  18. The traveling public shall be warned of construction with complete and proper signing and traffic control devices in accordance with the current Manual on Uniform Traffic Control Devices (MUTCD). No work shall be performed in the Right of Way unless this requirement is satisfied. NCDOT reserves the right to require a written traffic control plan for encroachment operations. Traffic control devices and operations shall include, but are not limited to the following:
    - Adequate and appropriate advance warning signs for any and all work zones, closed or obstructed areas.
    - "End Construction" signage beyond the end of all work zones.

- Adequate and appropriate delineation and control devices for all work zone areas including but not limited to lane closures, disturbed areas, and active work sites.
  - Properly trained and equipped flagmen.
  - Proper maintenance of all traffic control devices, including but not limited to proper signage and controls during periods of inactivity and removal of inappropriate traffic control signage and/or devices.
19. Traffic shall not be detoured or rerouted without the prior written approval of the Division Engineer. Two way traffic shall be maintained at all times.
  20. In the event work is completed in less time than permitted, the normal traffic pattern shall be restored as soon as the work has been completed.
  21. The Traffic Services Supervisor shall be notified at (910) 947-3930 in Carthage, NC, prior to beginning work on the Right of Way if there are existing NCDOT signs, traffic signals, or signal equipment in or near the proposed work zone. Costs to relocate, replace, or repair NCDOT signs, signals, or associated equipment shall be the responsibility of the Encroacher.
  22. All temporary and final pavement markings, reflective pavement markers, traffic control devices, and signage are the responsibility of the encroaching party and shall be installed in accordance with current NCDOT standards. **Final pavement marking plans shall be submitted to and approved by the Division Traffic Engineer at (910)944-2344, at 902 Sandhills Boulevard, Aberdeen, NC 28315.** Plans should be submitted as soon as possible to allow adequate time for review. **Pavement markings shall be pre-marked and the Division Traffic Services Supervisor shall be notified at (910) 947-3930 for inspection of pre-marking before permanent pavement markings are placed.** The encroaching party shall provide at least two working days notification for the inspection. Pavement markings and reflective pavement markers which are damaged, obscured, or obliterated during construction shall be replaced in conformance with current NCDOT standards. Thermoplastic pavement markings shall be installed at locations where the adjacent pavement are thermoplastic or as directed by the Division Traffic Engineer.
  23. All pavement markings shall be thermoplastic and shall conform to the requirements of the **NCDOT Standard Specifications for Roads and Structures 2006**.
  24. Curb cuts and ramps for handicapped persons shall be constructed in accordance with the current NCDOT "Standard for Wheelchair Ramp Curb Cuts" and the Americans With Disabilities (ADA) Accessibility Guidelines for Buildings and Facilities.
  25. Ingress and egress shall be maintained to businesses and dwellings. Driveways altered during construction shall be restored to a condition equal to that prior to beginning construction.
  26. Excavated material shall not be placed on the paved roadway surface at any time unless specifically approved by the District Engineer. Drainage structures shall not be blocked with excavated material at any time.
  27. Trenches/excavations/bore pits shall not remain open longer than a 24 hour period. No trench/excavation/bore pit shall be left open overnight except in the event of emergency, in which case the encroacher shall notify the District Engineer and inform him as to the nature and anticipated duration of the emergency. Any excavation left open overnight due to emergency shall be protected and delineated with complete, adequate and appropriate safety and traffic control devices.
  28. All backfill shall meet the Statewide Borrow Criteria and shall be placed in accordance with section 300-6 of **NCDOT Standard Specifications for Roads and Structures 2006**. Backfill material shall be free from rocks and debris placed in six inch loose layers and compacted to at least 95% of standard density as determined by AASHTO Method T-99 as modified by NCDOT, except that backfill material placed within eight (8) inches of the pavement subgrade shall be compacted to 100% of standard density. (Copies of these testing procedures are available on request from the NCDOT Materials and Tests Unit.) Each layer must be fully compacted by an approved mechanical tamp before the next layer is placed.

29. Excavated areas adjacent to pavement having more than a 2 inch drop shall be back filled and made safe with a 6:1 or flatter slope and shall be designated by appropriate delineation during periods of construction inactivity including, but not limited to, night and weekend hours.
30. Drainage structures and systems shall be preserved and protected. Any structure that is disturbed or damaged during construction shall be immediately restored to its original condition at no expense to the Department of Transportation. All utility installations shall be designed and constructed so as not to hinder, disrupt or interfere with the existing storm drainage. All facilities shall pass over or under highway drainage facilities.
31. The encroaching party shall contact the District Engineer for inspection of forms or grade line prior to placing concrete for curb and gutter. A minimum of 24 hours notice is required for inspections.
32. A ¼ inch per foot pavement slope based on the existing centerline in tangent sections is required. In addition, a smooth transition must be maintained along areas of super elevation. The proposed widening may necessitate wedging or resurfacing one half of the existing roadway to accomplish this requirement. Widened areas less than 6 feet in width shall utilize a full depth asphalt pavement design. The minimum pavement design shall be:
- 3 inches Asphalt Surface Course – S9.5B (2 LIFTS)
  - 4 inches Asphalt Intermediate Course – I-19.0B
  - 5 inches Asphalt Base Course- -B25.0B
- OR
- 3 inches Asphalt Surface Course – S9.5B (2 LIFTS)
  - 4 inches Asphalt Intermediate Course – I-19.0B
  - 10" Aggregate Base Course-(2 LIFTS)
33. All disturbed soil areas shall be promptly seeded and mulched. The encroaching party shall obtain the County Maintenance Engineer's approval of ditch and shoulder grading prior to seeding and mulching.
34. All earth areas shall be re-graded, seeded and mulched in accordance with Section 1660 of the NCDOT Standard Specifications for Roads and Structures 2006. Final determination of soil type shall be made by the Engineer. The following rates in pounds per acre apply:
- *YEAR ROUND MIXTURE (Sandy Soils)*
    - KY 31 Tall Fescue or Alta Tall Fescue – 50 pounds
    - Pensacola Bahiagrass – 50 pounds
    - Centipede – 5 pounds
    - Fertilizer (10-20-20 analysis) – 500 pounds
    - Limestone – 4000 pounds
  - *YEAR ROUND MIXTURE (Clay Soils)*
    - KY 31 Tall Fescue or Alta Tall Fescue – 100 pounds
    - Kenblue Bluegrass – 15 pounds
    - Fertilizer (10-20-20 analysis) – 500 pounds
    - Limestone – 4000 pounds
  - Add 10 pounds of Kobe or Korean Lespedeza and 10 pounds of 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 may be used provided the 1-2-2 ratio is maintained and the rate of application is adjusted to provide the same amount of plant food as a 10-20-20 analysis.
35. Notify the County Maintenance Engineer's office at (919) 742-3431, 1404 E Raleigh St. Siler City, N.C. 27344, prior to beginning work. The encroaching party shall provide the County Maintenance Engineer with the following information at least 3 working days prior to commencing operations:

- Proposed schedule of operations
- The name(s) and phone number(s) of project contact person(s). (See Special Provision 16)

19-3291  
ROUTE SR 1520 PROJECT The Parks at Meadowview COUNTY OF STATE OF NORTH CAROLINA Chatham

DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY ENCROACHMENT AGREEMENT FOR CURB AND GUTTER, PAVEMENT WIDENING AND STORM DRAINAGE

-AND-

The Parks at Meadowview, LLC  
8450 Falls of Neuse Rd. Suite 102 Raleigh, NC 27615

THIS AGREEMENT, made and entered into this the 3<sup>rd</sup> day of Aug., 2008 by and between the Department of Transportation, party of the first part; and The Parks at Meadowview, LLC party of the second part,

WITNESSETH

THAT WHEREAS, the party of the second part desires to encroach on the right of way of the public road designated as Route SR 1520, located approximately 5,500 feet north of the intersection of SR1520 and SR 1516 with the following: additional asphalt paving and storm drainage piping as required to construct entrance turn lanes for access to Old Graham Road SR 1520.

WHEREAS, it is to the material advantage of the party of the second part to effect this encroachment, and the party of the first part in the exercise of authority conferred upon it by statute, is willing to permit the encroachment with in the limits of the right of way as indicated, subject to the conditions of this agreement;

NOW, THEREFORE, IT IS AGREED that the party of the first part hereby grants to the party of the second part the right and privilege to make this encroachment as shown on attached plan sheet(s), specifications and special provisions which are made a part hereof upon the following conditions, to wit:

That the said party of the second part binds and obligates himself to install and maintain the encroaching facility in such safe and proper condition that it will not interfere with or endanger travel upon said highway.

That the party of the second part agrees to provide during construction proper signs, signal lights, flagmen and other warning devices for the protection of traffic in conformance with the latest 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 Division Engineer of the party of the first part.

That the party of the second part hereby agrees to indemnify and save harmless the party of the first part from all damages and claims for damage that may arise by reason of the installation and maintenance of this encroachment.

It is clearly understood by the party of the second part that the party of the first part will assume no responsibility for any damage that may be caused to such facilities, within the highway rights of way limits, in carrying out its construction.

That the party of the second part agrees to restore all areas disturbed during construction to the satisfaction of the Division Engineer of the party of the first part. The party of the second part agrees to exercise every reasonable precaution during construction and maintenance to prevent eroding of soil; silting or pollution of rivers, streams, lakes, reservoirs, other water impoundments, ground surfaces or other property; or pollution of the air. There shall be compliance with applicable rules and regulations of the North Carolina Division of Environmental Management, North Carolina Sedimentation Control Commission, and with ordinances and regulations of various counties, municipalities and other official agencies relating to pollution prevention and control. When any construction operation disturbs the ground surface and existing ground cover, the party of the second part agrees to remove and replace the sod or otherwise reestablish the grass cover to meet the satisfaction of the Division Engineer of the party of the first part.

That the party of the second part agrees to assume the actual cost of any inspection of the work considered to be necessary by the Division Engineer of the party of the first part.

That the party of the second part agrees to have available at the encroaching site, at all times during construction, a copy of this agreement showing evidence of approval by the party of the first part. The party of the first part reserves the right to stop all work unless evidence of approval can be shown.

Provided the work contained in this agreement is being performed on a completed highway open to traffic; the party of the second part agrees to give written notice to the Division Engineer of the party of the first part when all work contained herein has been completed. Unless specifically requested by the party of the first part, written notice of completion of work on highway projects under construction will not be required.

That in the case of noncompliance with the terms of this agreement by the party of the second part, the party of the first part reserves the right to stop all work until the facility has been brought into compliance or removed from the right of way at no cost to the party of the first part.

That it is agreed by both parties that this agreement shall become void if actual construction of the work contemplated herein is not begun within one (1) year from the date of authorization by the party of the first part unless written waiver is secured by the party of the second part from the party of the first part.

IN WITNESS WHEREOF, each of the parties to this agreement has caused the same to be executed the day and year first above written.

ATTEST OR WITNESS:

The Parks at Meadowview, LLC  
8450 Falls of Neuse RD. Suite 102 Raleigh, NC 27615

DEPARTMENT OF TRANSPORTATION

BY: [Signature]  
DIVISION ENGINEER

[Signature] Allen Harrington  
The Parks at Meadowview, LLC  
8450 Falls of Neuse Rd. Suite 102 Raleigh, NC 27615  
Second Party



## INSTRUCTIONS

When the applicant is a corporation or a municipality, this agreement must have the corporate seal and be attested by the corporation secretary or by the empowered city official, unless a waiver of corporate seal and attestation by the secretary or by the empowered City official is on file in the Raleigh office of the Manager of Right of Way. In the space provided in this agreement for execution, the name of the corporation or municipality shall be typed above the name, and title of all persons signing the agreement should be typed directly below their signature.

When the applicant is not a corporation, then his signature must be witnessed by one person. The address should be included in this agreement and the names of all persons signing the agreement should be typed directly below their signature.

This agreement must be accompanied, in the form of an attachment, by plans or drawings showing the following applicable information:

1. All roadways and ramps.
2. Right of way lines and where applicable, the control of access lines.
3. Location of the proposed encroachment.
4. Length and type of encroachment.
5. Location by highway survey station number. If station number cannot be obtained, location should be shown by distance from some identifiable point, such as a bridge, road, intersection, etc. (To assist in preparation of the encroachment plan, the Department's roadway plans may be seen at the various Highway Division Offices, or at the Raleigh office.)
6. Drainage structures or bridges if affected by encroachment.
7. Typical section indicating the pavement design and width, and the slopes, widths and details for either a curb and gutter or a shoulder and ditch section, whichever is applicable.
8. Horizontal alignment indicating general curve data, where applicable.
9. Vertical alignment indicated by percent grade, P.I. station and vertical curve length, where applicable.
10. Amount of material to be removed and/or placed on NCDOT right of way, if applicable.
11. Cross-sections of all grading operations, indicating slope ratio and reference by station where applicable.
12. All pertinent drainage structures proposed. Include all hydraulic data, pipe sizes, structure details and other related information.
13. Erosion and sediment control.
14. Any special provisions or specifications as to the performance of the work or the method of construction that may be required by the Department must be shown on a separate sheet attached to encroachment agreement provided that such information cannot be shown on plans or drawings.
15. The Department's Division Engineer should be given notice by the applicant prior to actual starting of installation included in this agreement.
16. Method of handling traffic during construction where applicable.
17. Scale of plans, north arrow, etc.



**COPY**

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

June 19, 2006

**LETTER OF APPROVAL**

The Parks At Meadowview, LLC  
Attn: Allen S. Harrington  
8450 Falls of the Neuse Road  
Raleigh, NC 27615

RE: Project Name: The Parks At Meadowview Phase 1A  
Acres approved: 56.00  
Total Acres: 396.55  
Permit Number: 2006-06-004  
Submitted By: CE Group, Inc.  
Date Received: 05/30/06

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.

Sincerely,



Holly Coleman, Division Supervisor

Enclosures: Certificate of Approval  
NPDES Permit

cc: Joe Faulkner



Chatham County, North Carolina  
Certificate of Sedimentation and Erosion Control Plan Approval and  
Land-Disturbing Permit  
For

The Parks at Meadowview Phase 1A  
Project Name and Location

2006-06-004  
Permit Number

The posting of this certificate certifies that an erosion and sedimentation control plan has been approved for this project by Chatham County, North Carolina in accordance with North Carolina General Statute 113A-57 (4) and 113A-54 (d)(4), the North Carolina Administrative Code, Title 15A, Chapter 4B.0007 (c) and as per applicable sections of the Chatham County Soil Erosion and Sedimentation Control Ordinance. This certificate must be posted at the primary entrance of the job site before construction begins and until establishment of permanent ground cover as required by North Carolina Administrative Code, Title 15A, Chapter 4B.0027 (b) and as per Chatham County's Erosion and Sediment Control Ordinance, Section 5 (d).

Responsible Person: Allen Harrington Phone: 919-847-5004

This plan was approved with "modifications"  Yes  No, and / or  
"performance reservations"  Yes  No.

Reviewer: Brian Grogan Date: 6/19/06

Holly Coleman  
THE ORDINANCE REQUIRES THAT A COPY OF  
THE EROSION CONTROL PLAN  
MUST BE KEPT AVAILABLE AT THE JOB SITE  
AT ALL TIMES FOR INSPECTION

U.S. ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICT

**COPY**

Action ID: 200620774 200620775

County: Chatham

USGS Quad: Bynum

**GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION**

Property Owner: **The Parks at Meadowview, LLC**  
Attn: Allen Harrington  
Address: **2214 Brawley School Road**  
**Mooreville, NC 28117**

Telephone No.: (704) 295-1106

Authorized Agent: **Soil & Environmental Consultants, P.A.**  
Attn: Sean Clark  
Address: **11010 Raven Ridge Road**  
**Raleigh, NC 27614**

Telephone No.: (919) 846-5900

Size and location of property (waterbody, road name/number, town, etc.): **The property is located east of NC 87, approximately 1 mile south of SR 1549, north of Pittsboro, Chatham County, North Carolina.**

Site Coordinates: **35.7829 °N 79.2233 °W** Waterway: **Brooks Creek** River Basin: **Cape Fear**

Description of project area and activity: **The project includes mechanized landclearing, excavation, and placement of fill material, including culverts and riprap, associated with the construction of two road crossings and utility crossings required for the development of The Parks at Meadowview Subdivision.**

Applicable Law:  Section 404 (Clean Water Act, 33 USC 1344)  
 Section 10 (Rivers and Harbors Act, 33 USC 403)  
Authorization: **Nationwide or Regional General Permit Number(s): 12 39**

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached conditions and your submitted plans. Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order and/or appropriate legal action.

This verification is valid until the NWP is modified, reissued, or revoked. All of the existing NWPs are scheduled to be modified, reissued, or revoked prior to March 18, 2007. It is incumbent upon you to remain informed of changes to the NWPs. We will issue a public notice when the NWPs are reissued. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. If, prior to the expiration date identified below, the nationwide permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all new and/or modified terms and conditions. The District Engineer may, at any time, exercise his discretionary authority to modify, suspend, or revoke a case specific activity's authorization under any NWP.

Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Quality (telephone (919) 733-1786) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management.

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits.

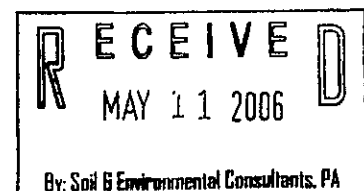
If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact **Todd Tugwell** at telephone (919) 876-8441, ext. 26.

Corps Regulatory Official: 

Date: **May 10, 2006**

Expiration Date of Nationwide Permit Verification: **March 18, 2007**

Copy Furnished:



**Determination of Jurisdiction:**

- A.  Based on preliminary information, there appear to be waters of the US including wetlands within the above described project area. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331).
- B.  There are Navigable Waters of the United States within the above described project area subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- C.  There are waters of the US and/or wetlands within the above described project area subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- D.  The jurisdictional areas within the above described project area have been identified under a previous action. Please reference the jurisdictional determination issued on (Action ID: ).

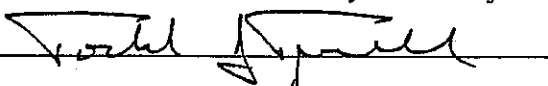
**Basis of Jurisdictional Determination:** The site contains Dry and Brooks Creek, stream channels with ordinary high water marks, defined bed and bank, and adjacent wetlands. The stream channels are tributaries to the Haw River in the Cape Fear River Basin.

**Appeals Information:** (This information does not apply to preliminary determinations as indicated by paragraph A. above) This correspondence constitutes an approved jurisdictional determination for the above-described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the South Atlantic Division, Division Office at the Following address:

Mr. Michael F. Bell, Administrative Appeal Review Officer  
 CESAD-ET-CO-R  
 U.S. Army Corps of Engineers, South Atlantic Division  
 60 Forsyth Street, Room 9M15  
 Atlanta, Georgia 30303-8801

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by July 8, 2006.

\*\*It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this correspondence.\*\*

Corps Regulatory Official: 

Date: May 10, 2006

Expiration Date of Jurisdictional Determination: May 10, 2011

**Summary of Authorized Impacts and Required Mitigation**

Action ID #	NWP / GP #	Open Water (ac)		Wetland (ac)		Unimportant Stream (lf)		Important Stream (lf)		
		Temporary	Permanent	Temporary	Permanent	Temporary	Permanent	Temporary	Permanent	
200620774	12	0	0	0	0	0	0	239	0	
200620775	39	0	0	0	0	0	0	0	250	
<b>Impact Totals</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>239</b>	<b>250</b>	
Total Loss of Waters of the U.S. (ac)				0		Total Loss of Waters of the U.S. (lf)				250
Required Wetland Mitigation (ac)			0			Required Stream Mitigation (lf)			500	In-Lieu/EEP

Additional Remarks and/or Special Permit Conditions:

See the following page for Special Permit Conditions.

### Special Permit Conditions

1. In order to compensate for impacts to 250 linear feet of stream the permittee shall make payment to the North Carolina Ecosystem Enhancement Program (NCEEP) in the amount determined by the NCEEP, sufficient to perform the restoration of 500 linear feet of warm water stream in the Cape Fear River Basin, Cataloging Unit 03030002. Construction within jurisdictional areas on the property shall begin only after the permittee has made full payment to the NCEEP and provided a copy of the payment documentation to the Corps, and the NCEEP has provided written confirmation to the Corps that it agrees to accept responsibility for the mitigation work required, in compliance with the MOU between the North Carolina Department of Environment and Natural Resources and the United States Army Corps of Engineers, Wilmington District, dated November 4, 1998.
2. The permittee shall cause to be recorded in the Register of Deeds for Chatham County a plat, showing the subdivision plan for the property, which shall include the boundary of all jurisdictional waters of the United States, prior to any construction within waters of the U.S., and prior to the sale or transfer of any property within the subdivision. A copy of the recorded deed shall be provided to the Corps within 30 days of its recordation.
3. The permittee shall identify the wetland boundaries on site with the installation of surveying stakes. Markings on stakes (or attached flags) shall identify the area as a wetland. Staking of wetland areas shall be accomplished prior to initiation of any impacts to jurisdictional areas (fill, mechanized landclearing, culvert installation, etc.) authorized by this permit. The stakes shall remain in place throughout the duration of all construction activities associated with the project, except in impact areas authorized by this permit. The Corps of Engineers regulatory project manager shall be contacted at least two weeks prior to removal of wetland boundary stakes.
4. The permittee shall install temporary fencing (e.g., orange webbed tree-protection fencing) to identify all wetlands located within 20 feet of any development activity (including clearing of vegetation, grading, excavating, etc.) associated with the project. In areas where impacts to wetlands are authorized by this permit, the fencing shall be installed at the limits of the authorized impact. Markings on the boundary fencing (or attached flags) shall identify the area as a wetland. Wetland protection fencing shall be installed prior to initiation of any impacts to jurisdictional areas (fill, mechanized landclearing, culvert installation, etc.) authorized by this permit. The fencing shall remain in place throughout the duration of all construction activities associated with the project. The Corps of Engineers regulatory project manager shall be contacted at least two weeks prior to removal of wetland boundary fencing.
5. All in-stream work is prohibited between 15 March and 30 June to minimize impacts to spawning fish.
6. Stormwater discharges from water quality ponds shall not be piped or channelized through stream buffers on site.

**WILMINGTON DISTRICT  
POST-CONSTRUCTION COMPLIANCE FORM**

Action ID Number: 200620774 200620775                      County: Chatham

Permittee: The Parks at Meadowview, LLC    Attn: Allen Harrington

Date Permit Issued: May 10, 2006

Project Manager: Todd Tugwell

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

US Army Corps Of Engineers  
Wilmington District  
Raleigh Regulatory Field Office  
6508 Falls Of The Neuse Road  
Suite 120  
Raleigh, North Carolina 27615

Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

---

**Signature of Permittee**

---

**Date**



**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND RECONSIDERATION**

<b>Applicant: The Parks at Meadowview, LLC</b> <b>Attn: Allen Harrington</b>	<b>File Number: 200620774</b>	<b>Date: May 10, 2006</b>
<b>Attached is:</b>		<b>See Section below</b>
<input type="checkbox"/>	<b>INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)</b>	<b>A</b>
<input type="checkbox"/>	<b>PROFFERED PERMIT (Standard Permit or Letter of permission)</b>	<b>B</b>
<input type="checkbox"/>	<b>PERMIT DENIAL</b>	<b>C</b>
<input checked="" type="checkbox"/>	<b>APPROVED JURISDICTIONAL DETERMINATION</b>	<b>D</b>
<input type="checkbox"/>	<b>PRELIMINARY JURISDICTIONAL DETERMINATION</b>	<b>E</b>

**SECTION I** The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at [http://www.usace.army.mil/incl/instructions\\_cw/aceawo/reg-corp/regulations/cfr/cfr-part-211](http://www.usace.army.mil/incl/instructions_cw/aceawo/reg-corp/regulations/cfr/cfr-part-211).

**A: INITIAL PROFFERED PERMIT:** You may accept or object to the permit.

- ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

**B: PROFFERED PERMIT:** You may accept or appeal the permit

- ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**C: PERMIT DENIAL:** You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**D: APPROVED JURISDICTIONAL DETERMINATION:** You may accept or appeal the approved JD or provide new information.

- ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**E: PRELIMINARY JURISDICTIONAL DETERMINATION:** You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

**SECTION II - REQUEST FOR APPEAL OR OBJECTIONS TO AN INITIAL PROFFERED PERMIT**

**REASONS FOR APPEAL OR OBJECTIONS:** (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

**ADDITIONAL INFORMATION:** The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

**POINT OF CONTACT FOR QUESTIONS OR INFORMATION**

If you have questions regarding this decision and/or the appeal process you may contact:

**Todd Tugwell**  
Raleigh Regulatory Field Office  
US Army Corps of Engineers  
6508 Falls of the Neuse Road, Suite 120  
Raleigh, North Carolina 27615

If you only have questions regarding the appeal process you may also contact:

Mr. Michael Bell, Administrative Appeal Review Officer  
CESAD-ET-CO-R  
U.S. Army Corps of Engineers, South Atlantic Division  
60 Forsyth Street, Room 9M15  
Atlanta, Georgia 30303-8801

**RIGHT OF ENTRY:** Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Date:

Telephone number:

\_\_\_\_\_  
Signature of appellant or agent.

**DIVISION ENGINEER:**

**Commander**

**U.S. Army Engineer Division, South Atlantic**  
**60 Forsyth Street, Room 9M15**  
**Atlanta, Georgia 30303-3490**



Michael F. Easley, Governor

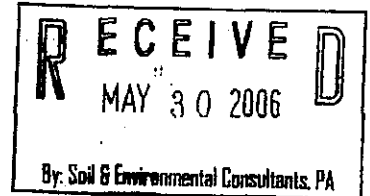
William G. Ross Jr., Secretary  
North Carolina Department of Environment and Natural Resources

Alan W. Klimek, P.E. Director  
Division of Water Quality

May 23, 2006

DWQ Project # 06-0616  
Chatham County

Mr. Allen Harrington  
The Parks At Meadowview, LLC  
2214 Brawley School Road  
Moorestville, NC 28117



Subject Property: **The Parks At Meadowview, LLC**  
Ut to Dry Creek & Brooks Creek [030604, 16-36, WSIV, B, NSW]

### Approval of 401 Water Quality Certification with Additional Conditions

Dear Mr. Harrington:

You have our approval, in accordance with the attached conditions and those listed below, to place fill within or otherwise impact 489 linear feet of perennial stream (250 linear feet permanent impacts, 239 linear feet temporary impacts) to construct the proposed residential subdivision, as described within your revised application dated May 15, 2006, and received by the N.C. Division of Water Quality (DWQ) on May 15, 2006. After reviewing your application, we have decided that the impacts are covered by General Water Quality Certification Number(s) 3374 and 3402 (GC3374 and GC3402). The Certification(s) allows you to use Nationwide Permit(s) NW12 and NW39, respectively, when issued by the US Army Corps of Engineers (USACE). In addition, you should obtain or otherwise comply with any other required federal, state or local permits before you go ahead with your project including (but not limited to) Erosion and Sediment Control, Non-discharge, and other regulations. **Also, this approval to proceed with your proposed impacts or to conduct impacts to waters as depicted in your application shall expire upon expiration of the 404 or CAMA Permit.**

This approval is for the purpose and design that you described in your application. If you change your project, you must notify us and you may be required to send us a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter and is thereby responsible for complying with all conditions. If total fills for this project (now or in the future) exceed one acre of wetland or 150 linear feet of stream, compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h). **This approval requires you to follow the conditions listed in the attached certification and any additional conditions listed below.**

**The Additional Conditions of the Certification are:**

**Conditions of Certification:**

1. Impacts Approved

The following impacts are hereby approved as long as all of the other specific and general conditions of this Certification (or Isolated Wetland Permit) are met. No other impacts are approved including incidental impacts:

	Amount Approved (Units)	Plan Location or Reference
Stream (Perennial)	489 linear feet (lf) of perennial stream (250 lf permanent, 239 lf feet temporary)	PCN page 5 of 9

Sediment and Erosion Control:

2. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
  - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
  - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
  - c. Sufficient materials required for stabilization and/or repair of erosion control measures and stormwater routing and treatment shall be on site at all times.
3. No waste, spoil, solids, or fill of any kind shall occur in wetlands, waters, or riparian areas beyond the footprint of the impacts depicted in the 404/401 Permit Application. All construction activities, including the design, installation, operation, and maintenance of sediment and erosion control Best Management Practices, shall be performed so that no violations of state water quality standards, statutes, or rules occur;
4. Sediment and erosion control measures shall not be placed in wetlands or waters to the maximum extent practicable. If placement of sediment and erosion control devices in wetlands and waters is unavoidable, they shall be removed and the natural grade restored within six months of the date that the Division of Land Resources has released the project;
5. Protective Fencing - The outside buffer, wetland or water boundary and along the construction corridor within these boundaries approved under this authorization shall be clearly marked

with orange warning fencing (or similar high visibility material) for the areas that have been approved to infringe within the buffer, wetland or water prior to any land disturbing activities to ensure compliance with 15 NCAC 2H, Section .0500;

6. Deed Notifications - Deed notifications or similar mechanisms shall be placed on all retained jurisdictional wetlands, waters and protective buffers in order to assure compliance for future wetland, water and buffer impact. These mechanisms shall be put in place prior to impacting any wetlands, waters and/or buffers approved for impact under this Certification Approval and Authorization Certificate. A sample deed notification can be downloaded from the 401/Wetlands Unit web site at <http://h2o.enr.state.nc.us/ncwetlands>. The text of the sample deed notification may be modified as appropriate to suit to this project;

## 7. Culvert Installation

Culverts required for this project shall be installed in such a manner that the original stream profiles are not altered. Existing stream dimensions (including the cross section dimensions, pattern, and longitudinal profile) must be maintained above and below locations of each culvert. Culverts shall be designed and installed to allow for aquatic life movement as well as to prevent head cutting of the streams. If any of the existing pipes are or become perched, the appropriate stream grade shall be re-established or, if the pipes installed in a perched manner, the pipes shall be removed and re-installed correctly.

Culvert(s) shall not be installed in such a manner that will cause aggradation or erosion of the stream up or down stream of the culvert(s). Existing stream dimensions (including the cross section dimensions, pattern and longitudinal profile) shall be maintained above and below locations of each culvert.

Placement of culverts and other structures in waters, streams, and wetlands must be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in disequilibrium of wetlands or streambeds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium shall be maintained if requested in writing by DWQ.

The establishment of native, woody vegetation and other soft stream bank stabilization techniques must be used where practicable instead of rip-rap or other bank hardening methods. If riprap is necessary, it shall not be placed in the streambed, unless specifically approved by the Division of Water Quality.

Installation of culverts in wetlands must ensure continuity of water movement and be designed to adequately accommodate high water or flood conditions.

Upon completion of the project, the Applicant shall complete and return the enclosed "Certificate of Completion" form to notify NCDWQ when all work included in the §401

Certification has been completed. The responsible party shall complete the attached form and return it to the 401/Wetlands Unit of the NC Division of Water Quality upon completion of the project. *Please send photographs upstream and downstream of each culvert site to document correct installation along with the Certificate of Completion form.*

8. Construction Stormwater Permit NCG010000

Upon the approval of an Erosion and Sedimentation Control Plan issued by the Division of Land Resources (DLR) or a DLR delegated local erosion and sedimentation control program, an NPDES General stormwater permit (NCG010000) administered by DWQ is automatically issued to the project. This General Permit allows stormwater to be discharged during land disturbing construction activities as stipulated by conditions in the permit. If your project is covered by this permit [applicable to construction projects that disturb one (1) or more acres], full compliance with permit conditions including the sedimentation control plan, self-monitoring, record keeping and reporting requirements are required. A copy of this permit and monitoring report forms may be found at [http://h2o.enr.state.nc.us/su/Forms\\_Documents.htm](http://h2o.enr.state.nc.us/su/Forms_Documents.htm);

9. Compensatory Mitigation Using the Ecosystem Enhancement Program (EEP)

Mitigation must be provided for the proposed impacts as specified in the table below. We understand that you wish to make a payment to the Wetlands Restoration Fund administered by the NC Ecosystem Enhancement Program (EEP) to meet this mitigation requirement. This has been determined by the DWQ to be a suitable method to meet the mitigation requirement. Until the EEP receives and clears your check (made payable to: DENR – Ecosystem Enhancement Program Office), no impacts specified in this Authorization Certificate shall occur. The EEP should be contacted at (919) 733-5205 if you have any questions concerning payment into a restoration fund. You have one month from the date of this approval to make this payment. **For accounting purposes, this Authorization Certificate authorizes payment into the Wetlands Restoration Fund to meet the following compensatory mitigation requirement:**

	Compensatory Mitigation Required	River and Sub-basin Number
Stream	250 (linear feet)	Cape Fear/03030002

Certificate of Completion:

10. Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return the attached certificate of completion to the 401/Wetlands Unit, North Carolina Division of Water Quality, 1650 Mail Service Center, Raleigh, NC, 27699-1650.

**Also, this approval to proceed with your proposed impacts or to conduct impacts to waters as depicted in your application shall expire upon expiration of the 404 or CAMA Permit.**

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. The authorization to proceed with your proposed

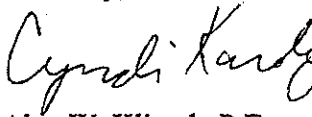
May 23, 2006

impacts or to conduct impacts to waters as depicted in your application and as authorized by this Certification shall expire upon expiration of the 404 or CAMA Permit.

If you do not accept any of the conditions of this Certification (associated with the approved wetland or stream impacts), you may ask for an adjudicatory hearing. You must act within 60 days of the date that you receive this letter. To ask for a hearing, send a written petition, which conforms to Chapter 150B of the North Carolina General Statutes to the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, N.C. 27699-6714. This certification and its conditions are final and binding unless you ask for a hearing.

This letter completes the review of the Division of Water Quality under Section 401 of the Clean Water Act. If you have any questions, please telephone Cyndi Karoly or Ian McMillan in the Central Office in Raleigh at 919-733-1786 or Alan Johnson in the DWQ Mooresville Regional Office at 704-663-1699.

Sincerely,

  
Alan W. Klimek, P.E.

AWK/ijm

Enclosures: GC 3374 and GC 3402  
NCDWQ 401WQC Summary of Permitted Impacts and Mitigation Requirements  
Certificate of Completion

cc: Sean Clark, S&EC, P.A., 11010 Raven Ridge Road, Raleigh, NC 27614  
USACE Raleigh Regulatory Field Office  
Eric Kulz, DWQ Raleigh Regional Office  
DLR Raleigh Regional Office  
File Copy  
Central Files

Filename: 060616TheParksAtMeadowview(Chatham)401



Michael F. Easley, Governor

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

Alan W. Klimek, P.E. Director  
Division of Water Quality

North Carolina Division of Water Quality  
**401 Water Quality Certification**  
Summary of Permitted Impacts and Mitigation Requirements

In accordance with 15A NCAC 2H.0500, The Parks At Meadowview, LLC has permission as outlined below to impact 489 linear feet of perennial stream (250 linear feet permanent impacts, 239 linear feet temporary impacts) to construct the proposed residential subdivision NC Highway 87 and Chatham County Road 1520 in Chatham County. All activities associated with these authorized impacts must be conducted with the conditions listed in the attached Permit transmittal letter. **THIS PERMIT IS NOT VALID WITHOUT THE ATTACHMENTS.**

**COMPENSATORY MITIGATION REQUIREMENTS, ECOSYSTEM ENHANCEMENT PROGRAM**

LOCATION: Pittsboro, NC.  
COUNTY Chatham  
BASIN/ SUB BASIN Cape Fear/03030002

As required by 15A NCAC 2H.0500, and the conditions of this Permit, you are required to compensate for the above impacts through the restoration, creation, enhancement or preservation of wetlands and surface waters as outlined below prior to conducting any activities that impact or degrade the waters of the state.

Note: Acreage requirements proposed to be mitigated through the Ecosystem Enhancement Program must be rounded to one-quarter acre increments and linear foot requirements must be rounded up to the nearest foot according to 15 2R.0503(b).

Impacts	Mitigation
250 linear feet of stream	250 linear feet of stream

In correspondence dated April 20, 2006, the EEP indicated that up to 250 linear feet of stream mitigation will be conducted by EEP if necessary for the 401 Water Quality Certification and 404 Permit.

One of the options you have available to satisfy the compensatory mitigation requirement is through the payment of a fee to the Wetlands Restoration Fund per NCAC 2R.0503. If you choose this option, please sign this form and mail the form along with a copy of your 401 Certification or Buffer Approval to the Ecosystem Enhancement Program at the address below. An invoice for the appropriate amount of payment will be sent to you upon receipt of this form. **PLEASE NOTE, THE ABOVE IMPACTS ARE NOT AUTHORIZED UNTIL YOU RECEIVE NOTIFICATION THAT YOUR PAYMENT HAS BEEN PROCESSED BY THE ECOSYSTEM ENHANCEMENT PROGRAM.**

Signature \_\_\_\_\_ Date \_\_\_\_\_

**ECOSYSTEM ENHANCEMENT PROGRAM**  
1652 Mail Service Center  
RALEIGH, N.C. 27699-1652  
(919) 733-5205

Filename: 060616TheParksAtMeadowview(Chatham)401\_EEP



**Nick Robinson**

---

**From:** "Clay S Lowder" <clay@cegrouppinc.com>  
**To:** "Nick Robinson" <robinson@bradshawrobinson.com>  
**Cc:** "Joe Faulkner" <joe@cegrouppinc.com>; "Paul Meder" <paul@cegrouppinc.com>  
**Sent:** Monday, August 14, 2006 8:47 AM  
**Attach:** 125-01-Roads Names 080806.pdf; Roads Names Submitted 080706.pdf  
**Subject:** Fw: 080806E2-FW: The Parks - Road Name Map

----- Original Message -----

**From:** Paul Meder  
**To:** 'Jason R McCoy'  
**Cc:** 'Clay S Lowder'; Joe Faulkner; 'Angela D Hebert'; asharrin@crescent-resources.com  
**Sent:** Tuesday, August 08, 2006 11:36 AM  
**Subject:** 080806E2-FW: The Parks - Road Name Map

Jason,

Please find attached the road name map for The Parks. These names have been approved by the County. Clay Lowder, at my office, is forwarding this map to Absolute Surveying today, for use on the phase 1 plats.

Thanks for your assistance in getting this task completed,  
Paul

(Thanks Clay, it looks good, send it on to Charles)

---

**From:** Clay S Lowder [mailto:clay@cegrouppinc.com]  
**Sent:** Tuesday, August 08, 2006 10:16 AM  
**To:** Paul Meder  
**Subject:** Road Name Map

Paul,

Review the attached map, give me a green light and I will forward it to Charles. Chatham County has accepted the names.

Thanks

Clay

---

No virus found in this incoming message.

Checked by AVG Free Edition.

Version: 7.1.405 / Virus Database: 268.10.7/411 - Release Date: 8/7/2006

SUBDIVISION: The Parks at Meadowview

DIRECTIONS: NC 87 / Old Graham Road

DEVELOPER: Crescent Communities PHONE NUMBER: 919-367-8790

Major Development: X Minor Development: \_\_\_\_\_

Development with acreage of 10 acreage of 10 acres or more: \_\_\_\_\_

Proposed road names	OK to submit	DUPLICATED Do not Submit
<u>Holiday Drive</u>	_____	_____
<u>Old Fort Drive</u>	_____	_____
<u>Wild Woods Trail</u>	_____	_____
<u>Walking Trail Lane</u>	_____	_____
<u>Eagles Nest Loop</u>	_____	_____
<u>West Pasture Way</u>	_____	_____
<u>Mallard Place</u>	_____	_____

DATE SUBMITTED TO EOC: August 7, 2006

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



SUBDIVISION: The Parks at Meadowview

DIRECTIONS: NC 87 / Old Graham Road

DEVELOPER: Crescent Communities PHONE NUMBER: 919-367-8790

Major Development: X Minor Development: \_\_\_\_\_

Development with acreage of 10 acreage of 10 acres or more: \_\_\_\_\_

Proposed road names	OK to submit	DUPLICATED Do not Submit
<u>Maple Leaf Drive</u>	_____	_____
<u>River Rock Court</u>	_____	_____
<u>Central Park Circle</u>	_____	_____
<u>Parkside Drive</u>	_____	_____
<u>Misty Glen Lane</u>	_____	_____
<u>Watercress Court</u>	_____	_____
<u>Sunny Vista Court</u>	_____	_____

DATE SUBMITTED TO EOC: August 7, 2006

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



SUBDIVISION: The Parks at Meadowview

DIRECTIONS: NC 87 / Old Graham Road

DEVELOPER: Crescent Communities PHONE NUMBER: 919-367-8790

Major Development: X Minor Development: \_\_\_\_\_

Development with acreage of 10 acreage of 10 acres or more: \_\_\_\_\_

Proposed road names	OK to submit	DUPLICATED Do not Submit
<u>Dusty Arbor Lane</u>	_____	_____
<u>Fox Run Lane</u>	_____	_____
<u>Pinwheel Drive</u>	_____	_____
<u>Daisey Drive</u>	_____	_____
<u>Timber Park Drive</u>	_____	_____
<u>Botanical Way</u>	_____	_____
<u>Old Well Drive</u>	_____	_____

DATE SUBMITTED TO EOC: August 7, 2006

SUBMITTED BY: CE Group, Inc.

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

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

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

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

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

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

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

revised 4/19/02



SUBDIVISION: The Parks at Meadowview

DIRECTIONS: NC 87 / Old Graham Road

DEVELOPER: Crescent Communities PHONE NUMBER: 919-367-8790

Major Development: X Minor Development: \_\_\_\_\_

Development with acreage of 10 acreage of 10 acres or more: \_\_\_\_\_

Proposed road names	OK to submit	DUPLICATED Do not Submit
<u>Sunflower Court</u>	_____	_____
<u>Pine Straw Court</u>	_____	_____
<u>West Park Drive</u>	_____	_____
<u>North Park Drive</u>	_____	_____
<u>Brooks Creek Trail</u>	_____	_____
<u>Adventure Lane</u>	_____	_____
<u>Brookside Court</u>	_____	_____

DATE SUBMITTED TO EOC: August 7, 2006

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



SUBDIVISION: The Parks at Meadowview

DIRECTIONS: NC 87 / Old Graham Road

DEVELOPER: Crescent Communities PHONE NUMBER: 919-367-8790

Major Development: X Minor Development: \_\_\_\_\_

Development with acreage of 10 acreage of 10 acres or more: \_\_\_\_\_

Proposed road names	OK to submit	DUPLICATED Do not Submit
<u>Discovery Drive</u>	_____	_____
<u>Oakcrest Court</u>	_____	_____
<u>Parkway Drive</u>	_____	_____
<u>Sugarberry Lane</u>	_____	_____
<u>Grassy Knoll Court</u>	_____	_____
<u>Drifting Leaf Lane</u>	_____	_____
<u>Cloudview Court</u>	_____	_____

DATE SUBMITTED TO EOC: August 7, 2006

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



SUBDIVISION: The Parks at Meadowview

DIRECTIONS: NC 87 / Old Graham Road

DEVELOPER: Crescent Communities PHONE NUMBER: 919-367-8790

Major Development: X Minor Development: \_\_\_\_\_

Development with acreage of 10 acreage of 10 acres or more: \_\_\_\_\_

Proposed road names	OK to submit	DUPLICATED Do not Submit
<u>Keystone Court</u>	_____	_____
<u>Palmetto Drive</u>	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

DATE SUBMITTED TO EOC: August 7, 2006

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



Subj: **Fw: The PARKS at Meadowview Phase 1A**  
Date: 8/8/2006 9:08:38 AM Eastern Daylight Time  
From: [mike@cegroupinc.com](mailto:mike@cegroupinc.com)  
To: [Robinson@bradshawrobinson.com](mailto:Robinson@bradshawrobinson.com), [joe@cegroupinc.com](mailto:joe@cegroupinc.com)

Sent from my Verizon Wireless BlackBerry

-----Original Message-----

From: "Roy Lowder" <[roy.lowder@ncmail.net](mailto:roy.lowder@ncmail.net)>  
Date: Tue, 8 Aug 2006 08:32:33  
To: "Mike Zaccardo" <[Mike@cegroupinc.com](mailto:Mike@cegroupinc.com)>  
Subject: RE: The PARKS at Meadowview Phase 1A

Mike,

Tim and I looked at the plans yesterday. They look fine with us.

Thanks,

Roy

---

From: Mike Zaccardo [<mailto:Mike@cegroupinc.com>]  
Sent: Sunday, August 06, 2006 2:19 PM  
To: 'Roy Lowder'  
Cc: Joe Faulkner (Joe Faulkner)  
Subject: The PARKS at Meadowview Phase 1A

Roy,

Can we get a quick e-mail "OK" on The PARKS at Meadowview Phase 1A for "water material" and County Fire review? If you remember, we had revised the plans and returned them to you and we got the signed PWS application. We are now awaiting final approval from PWS.

We need this as part of our PB submittal Monday.



Thanks

Mike Zaccardo, PE

CE Group, Inc.

11000 Regency Parkway, Suite 410

Cary, NC 27511

(919) 367-8790 ext. 103 phone

(919) 367-8791 fax

(919) 624-4927 mobile



LAND USE EVALUATION  
 CIVIL ENGINEERING  
 CONSTRUCTION MANAGEMENT

## Transmittal

TO: NC Public Water Supply
Hand Delivery
ATTENTION: Permit Review

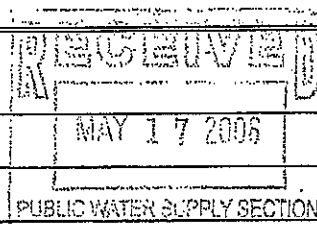
DATE: 5/15/06
PROJECT NO: 125-01
RE: The PARKS at Meadowview Subdivision
Water Distribution Plans and Specifications
Chatham County, NC Heater Utilities

Quantity	Drawing No.	Description
3 sets	Sealed 5/15/06	The PARKS at Meadowview Phase 1A Construction Plans
3 copies	Sealed 5/15/06	Water Distribution System Technical Specifications
3 copies	Sealed 5/15/06	Engineering Report
3 each	Dated 5/15/06	Water System Management Plan Certification / Permit Application (1 original, 2 copies)

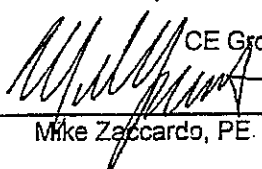
REMARKS

Call if you have any questions or require additional information.

Thank you for your help with this matter.



CC: Mike Myers, Heater Utilities  
 Roy Lowder, Chat. Co. Water  
 Alan Harrington

Signed  CE Group, inc.  
 Mike Zaccardo, PE.

11000 Regency Parkway, Suite 410 Cary, N.C. 27511 919-367-8790 voice 919-367-8791 fax

**North Carolina Department of Environment  
And Natural Resources  
Division of Environmental Health  
Public Water Supply Section**

**Application for Approval  
of Engineering Plans and Specifications  
For Water Supply Systems**

Date \_\_\_\_\_  
(for DENR use only)

Serial No. \_\_\_\_\_  
(for DENR use only)

To: Division of Environmental Health  
Department of Environment and Natural Resources

The Board of Commissioners  
(name of board, or council, authorized official and title, or owner)

of Chatham County  
(name of city, town, corporation, sanitary district, water company or other)

in the County of Chatham State of North Carolina authorized by law to act for

the said Chatham County  
(name of city, town, corporation, sanitary district, water company or other)

and to expend its funds for the water project described below, herewith submit for the counsel and advice of the Division of Environmental Health plans and specifications prepared by CE Group, Inc. (engineer or firm)

of 11000 Regency Parkway, Suite 410, Cary, NC 27511 for the installation or construction of

The PARKS at Meadowview Subdivision Phase 1A with 11,337 LF of 8" Class 350 DIP. 3,363 lf 2" Class 200 SDR 21 PVC. 12 fire hydrant assemblies and appurtenances installed off of Old Graham Road  
(describe project)

\_\_\_\_\_  
(location of project)

in Chatham County and make application to the Division of Environmental Health for

the approval of said plans and specifications as related to public health and protection of public water supplies and public water systems.

These plans have been approved and accepted by the applicant.

This application is made under and in full accord with the provision of Chapter 130A-317 of the North Carolina General Statutes, and such other statutes as related to public water systems. The applicant agrees that no change or deviation from the engineering plans and specifications approved by the Division of Environmental Health will be made except as allowed by T15A: 18C .0306 or with the written consent and approval of the Division of Environmental Health or its authorized representative. The applicant agrees that a professional engineer licensed to practice in the State of North Carolina shall submit a statement reflecting that adequate observations during and upon completion of construction, by the engineer or by a representative of the engineer's office who is under the engineer's supervision, indicates that construction was completed in accordance with approved plans and specifications.

Remarks: \_\_\_\_\_

  
(Signature of Owner, Manager, Mayor or Chairman)

Michael J. Myers  
(Type Name Signed Above)

202 MacKenan Court  
(Street or Box Number)

Cary, NC 27511  
(City, State, Zip Code)

**Status of Water System Management Plan (WSMP)**

Check one of the following, and if applicable, provide the required information:

- The WSMP for the project, as defined in the attached engineering plans and specifications, is submitted with this application.
- The WSMP that includes this project, as defined in the attached engineering plans and specifications, was previously submitted.

Provide the following:

Water System Name: Buck Mountain

Owner Name: Heater Utilites, Inc.

PWS I.D. No: \_\_\_\_\_

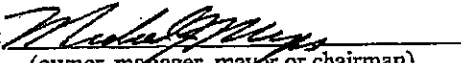
WSMP No: 99-02030

WSMP Submittal Date: 11/9/99

County: Chatham

By my signature below, I certify that the previously submitted WSMP contains the information required by Rule .0307(c) for the project defined in the attached engineering plans and specifications.

NAME: Michael J. Myers

SIGNATURE:  DATE: 5-16-06  
(owner, manager, mayor or chairman)

- The WSMP for the project, as defined in the attached engineering plans and specifications, has not been submitted.

**Note:** When the WSMP is submitted, the applicant must clearly identify the previously submitted project engineering plans and specifications for which the WSMP was prepared.

**Status of Engineer's Report**

Check one of the following, and if applicable, provide the required information.

- The Engineer's Report for the project, as defined in the attached engineering plans and specifications, is submitted with this application.
- The Engineer's Report that includes this project, as defined in the attached engineering plans and specifications, was previously submitted.

Provide the following:

Water System Name: \_\_\_\_\_

Owner Name: \_\_\_\_\_

PWS I.D. No: \_\_\_\_\_

Engineer's Report No: \_\_\_\_\_

Engineer's Report Title: \_\_\_\_\_

Engineer's Report Submittal Date: \_\_\_\_\_

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

**Note:** If the previously submitted Engineer's Report covered multiple projects, then attach to this Application, a letter form the engineer stating that the previously submitted Engineer's Report contains the information required by Rule .0307(b) for the project defined in the attached engineering plans and specifications.

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, with the following provisions:

This approval is given with the understanding that upon installation of such works, its operation shall be placed under the care of a competent person, and the operation shall be carried out according to best accepted practice and in accordance with the recommendations of the Division of Environmental Health.

The official copies of plans and specifications accompanying this application have been sealed and stamped with the serial number of this application \_\_\_\_\_. Only such plans and specifications are included in this approval and any erasures, additions or alterations of the proposed improvements except those permitted in T15A: 18C .0306 will make approval null and void.

This approval does not constitute a warranty of the design, construction or future operation of the water system.

Signed: \_\_\_\_\_  
Public Water Supply Section  
Division of Environmental Health

