

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

DIVISION OF HIGHWAYS

EUGENE A. CONTI, JR. SECRETARY

September 9, 2010

Chatham County

Subject: Subdivision - Final Plan Review - Phase 5 North of the Briar Chapel Subdivision

McKim & Creed c/o Curt Blazier, PE 200 MacKenan Court Cary, NC 27511

Dear Mr. Blazier:

The N. C. Department of Transportation, Division of Highways has reviewed the construction plans signed and sealed by Mr. Grant Livengood, PE on August 6, 2010 as submitted to this office and approval is granted subject to the following stipulations and recommendations:

- 1. All Construction is to be in accordance with the details as shown on the plans, as well as conform to the most recent edition of the Standard Specifications for Roads and Structures.
- 2. A Driveway Permit is not needed for this package.
- 3. The entire proposed right of way is to be cleared and grubbed throughout the whole phase of the project. Please be aware that the areas within the sight distance quadrants are to be treated as right of way.
- 4. All soil areas within the proposed right of way and any other soil areas disturbed during construction shall be seeded and mulched immediately upon completion of roadway construction. The seeding shall be done as outlined in the seeding specification attachment.
- 5. The crossline drainage is approved as proposed on the construction plans. If, however field conditions dictate any changes, these shall be made upon approval by NCDOT. If any of the property owners desire to pipe their ditches within the proposed NCDOT right of way, please advise them that this work should conform to NCDOT specifications for this type of work (see attached). If any ditches are piped and not satisfactorily completed to NCDOT specifications, this could result in the road not being accepted for addition to the state maintained system of roads. Any ditches piped or other encroachment prior to addition to the state maintained system are subject to an encroachment agreement, as are utility companies, when the road is added.

Phase 5 North of the Briar Chapel Subdivision Final Plan Approval Plans signed and sealed by Grant Livengood, PE on August 6, 2010 Page 2 of 12

- 6. The typicals as shown in the plans, are approved.
- 7. The Division of Highways will only allow mailboxes, with non-rigid type post, such as 4" x 4" wooden or small diameter metal type on new additions. Brick columns or mailboxes on rigid stands such as block, stone or any other type deemed to be a traffic hazard will not be allowed within the right of way. This policy applies to all roads being considered for addition to the State Maintained System.
- 8. An erosion control plan shall require approval from Chatham County. The developer should forward this plan to Mr. Jim Willis, Erosion and Sediment Control Officer, 80 East, P.O. Box 130, Pittsboro, N.C. 27312, phone (919) 545-8343 for his review and approval.
- 9. As this subdivision is proposed to be public and is likely to be requested to be added to the state maintained system of roads, the developer will be responsible for providing a PE Certification, (See Attached) and testing results for base and asphalt density stating that the streets have been built in accordance with the most current "Subdivision Roads: Minimum Construction Standards" manual and with the attached approved plans. Please be advised that this PE Certification does not approve the road for addition to the State Highway System for maintenance. When the proper home density is achieved and roads have been satisfactorily maintained, the developer or property owners must submit Form SR-1, Petition for Road Addition (copy attached to this correspondence), and four (4) copies of the recorded plat to request that the road or roads be added to the State Highway system. Any maintenance problems found when the road is requested to be added must be repaired by the developer prior to the road becoming state maintained. As stated in GS 136-102.6, final acceptance by the Division of Highways of the public streets and placing them on the State highway system for maintenance shall be conclusive proof that the streets have been constructed according to the minimum standards of the Board of Transportation.
- 10. The developer shall comply with all applicable local, state, and federal environmental regulations, and shall obtain all necessary local, state, and federal environmental permits, including, but not limited to, those related to sediment control, stormwater, wetlands, streams, endangered species, and historical sites.
- 11. A properly completed Verification of Compliance with the Department of Environment and Natural Resources (DENR)(page 35, attached) must be submitted prior to the road(s) being considered for addition to the NCDOT System.
- 12. In preparing the final plat for certification by this office and subsequent recording, the following information will be incorporated:
 - A. The sight distance quadrants at the intersections shall be shown either as a public easement or as the property line.
 - B. Public easements for drainage throughout the development.
 - C. All roads shall be shown as public and the right of way width shown

Phase 5 North of the Briar Chapel Subdivision Final Plan Approval Plans signed and sealed by Grant Livengood, PE on August 6, 2010 Page 3 of 12

- 13. If the plans of this subdivision change in a way that would cause a change in the classification of these roads from Local Residential to Residential Collector the developer will be responsible for upgrading roads to meet Residential Collector standards prior to addition the state maintenance system.
- 14. This approval does not approve the utilities within this subdivision. Any utilities shall be submitted for approval to this office via a properly executed Encroachment Agreement to be approved at the time the roads within the subdivision are petitioned to be added to the state system for maintenance. Please note that water valves should be located a minimum of 6' from edge of pavement, fire hydrants should be behind the right of way line and all service taps should be installed prior to paving.

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

Yours truly,

Reuben Blakley JB Reuben Blakley, PE District Engineer

Attachments

cc: Tim Johnson, P.E., Division Engineer B.F. Sloan, County Maintenance Engineer Lynn Richardson, Chatham County Planning File



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

DIVISION OF HIGHWAYS

EUGENE A. CONTI, JR. SECRETARY

PROFESSIONAL ENGINEER CERTIFICATION SUBDIVISIONS AND COMMERCIAL DRIVEWAYS DIVISION 8, DISTRICT 1

DATE:			
COUNTY:			
SUBDIVISION NAME:			
STREET NAMES	From Sta. No.	To Sta. No.	
-			
			
			479
This is to certify that the abo	ove listed roads have been co	nstructed in accordance with the	e approved plans and all
aspects of the most current S	ubdivision Roads: Minimum	Construction Standards manual	
-	NAME:		
SI	GNATURE:		
	LICENSE #:		
		Professional	Engineer Seal

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

ROADWAY INFORMATION:	rease Fint/Type)	
County:	Road Name: (Please list additional str	reet names and lengths on the back of this form.)
Number of occupied homes havin	g street frontage:	Located (miles):
miles N S E W of the (Check one)	ne intersection of Route (SR.	and Route (SR, NC, US)
We, the undersigned, being prope	erty owners and/or developers	of in
County, do here	by request the Division of High	ways to add the above described road.
CONTACT PERSON: Name and A		
Name:	F	Phone Number:
Street Address:		
Mailing Address:		
	PROPERTY OWNERS	
<u>Name</u>	Mailing Address	<u>Telephone</u>
100		

	Person (This pe	ad cubdivician n	spokesperson for period or property deeds	s. William telefico o	candidate road.	
4 Adjoining prope	rty owners and/o	or the develope	r may submit a petiti	JII. Subulvisioi i	oads with prior	
بينا استفاق المحسي	Hardonaloses o	naragehment 9/	eveloper's signature greements from all u	HILLES IOCALEG WIL	hin the right of	
way shall be su required at this	bmitted with the	petition for Roa	ad addition. However	, construction pie	ans may not be	
6. Submit to Distri	ct Engineer's Of	fice.				
FOR NCDOT US	F ONLY: Pleas	e check the a	ppropriate block	-		
Rural Road	Subdivision platted	d prior to October	1, 1975 🔲 Subdivis	sion platted after Se	eptember 30, 1975	
REQUIREMENTS	EOD ADDITION					
Transportation a construction standistruction standistruction standistruction from the right-or-way	right-of-way of dards of the NC added to the sy for cut and fill	the necessary CDOT. The rig state maintain I slopes and di tance and des	for addition, we ag width to construct the pht-of-way will extend and will rainage. Also, we assign purposes and extended the NCDO	nd the entire lend include the nectagree to dedicate execute said rigit	ngth of the road the essary areas outs the additional right-ht-of-way agreem	of-
forms that will be cleared at no exp obstructions, etc.	submitted to usense to the NC 136-102.6 (see must be built in	s by represent DOT, which in page 29 for S n accordance	tatives of the NCDO ncludes the remova statute) states that a with NCDOT stand	of utilities, fendance subdivision	ces, other recorded on or af be eligible for	
forms that will be cleared at no exp obstructions, etc. General Statute 7 October 1, 1975,	submitted to usense to the NC 136-102.6 (see must be built in	s by represent DOT, which in page 29 for S n accordance	catives of the NODO	of utilities, fendance subdivision	ces, other	
forms that will be cleared at no expostructions, etc. General Statute of October 1, 1975, addition to the St	submitted to usense to the NC 136-102.6 (see must be built in ate Road Syste	s by represent DOT, which in page 29 for S n accordance t em.	tatives of the NODO ncludes the remova statute) states that a	al of utilities, fendany subdivision ards in order to	ces, other recorded on or af be eligible for	
forms that will be cleared at no expostructions, etc. General Statute of October 1, 1975, addition to the St	submitted to usense to the NC 136-102.6 (see must be built in ate Road Syste	s by represent DOT, which in page 29 for S n accordance t em.	tatives of the NODO ncludes the remova statute) states that a	al of utilities, fendany subdivision ards in order to	ces, other recorded on or af be eligible for	
forms that will be cleared at no expostructions, etc. General Statute of October 1, 1975, addition to the St	submitted to usense to the NC 136-102.6 (see must be built in ate Road Syste	s by represent DOT, which in page 29 for S n accordance t em.	tatives of the NODO ncludes the remova statute) states that a	al of utilities, fendany subdivision ards in order to	ces, other recorded on or af be eligible for	
forms that will be cleared at no expostructions, etc. General Statute of October 1, 1975, addition to the St	submitted to usense to the NC 136-102.6 (see must be built in ate Road Syste	s by represent DOT, which in page 29 for S n accordance t em.	tatives of the NODO ncludes the remova statute) states that a	al of utilities, fendany subdivision ards in order to	ces, other recorded on or af be eligible for	
forms that will be cleared at no expostructions, etc. General Statute of October 1, 1975, addition to the St	submitted to usense to the NC 136-102.6 (see must be built in ate Road Syste	s by represent DOT, which in page 29 for S n accordance t em.	tatives of the NODO ncludes the remova statute) states that a	al of utilities, fendany subdivision ards in order to	ces, other recorded on or af be eligible for	
forms that will be cleared at no expostructions, etc. General Statute of October 1, 1975, addition to the St	submitted to usense to the NC 136-102.6 (see must be built in ate Road Syste	s by represent DOT, which in page 29 for S n accordance t em.	tatives of the NODO ncludes the remova statute) states that a	al of utilities, fendany subdivision ards in order to	ces, other recorded on or af be eligible for	
forms that will be cleared at no expostructions, etc. General Statute of October 1, 1975, addition to the St	submitted to usense to the NC 136-102.6 (see must be built in ate Road Syste	s by represent DOT, which in page 29 for S n accordance t em.	tatives of the NODO ncludes the remova statute) states that a	al of utilities, fendany subdivision ards in order to	ces, other recorded on or af be eligible for	
forms that will be cleared at no expostructions, etc. General Statute of October 1, 1975, addition to the St	submitted to usense to the NC 136-102.6 (see must be built in ate Road Syste	s by represent DOT, which in page 29 for S n accordance t em.	tatives of the NODO ncludes the remova statute) states that a	al of utilities, fendany subdivision ards in order to	ces, other recorded on or af be eligible for	
forms that will be cleared at no expostructions, etc. General Statute of October 1, 1975, addition to the St	submitted to usense to the NC 136-102.6 (see must be built in ate Road Syste	s by represent DOT, which in page 29 for S n accordance t em.	tatives of the NODO ncludes the remova statute) states that a	al of utilities, fendany subdivision ards in order to	ces, other recorded on or af be eligible for	
forms that will be cleared at no expostructions, etc. General Statute of October 1, 1975, addition to the St	submitted to usense to the NC 136-102.6 (see must be built in ate Road Syste	s by represent DOT, which in page 29 for S n accordance t em.	tatives of the NODO ncludes the remova statute) states that a	al of utilities, fendany subdivision ards in order to	ces, other recorded on or af be eligible for	

INSTRUCTIONS FOR COMPLETING PETITION:

1. Complete Information Section

POSSIBLE SUPPLIERS FOR GRATES AND FRAMES

SOUTHERN FOUNDRY P.O. BOX 186 APEX, N.C. 27502 (919) 362-7744 NORFOLK CAST, INC. P.O. BOX 328 NORFOLK, VA. 23501

VULCAN FOUNDRY CORP, P.O. BOX 905 DENHAM SPRINGS, LA. 1(800)626-4653 US FOUNDRY 8351 N. W.93RD ST MEDLEY, FLA.33166 (305)885-0301 FAX (305) 844-3253

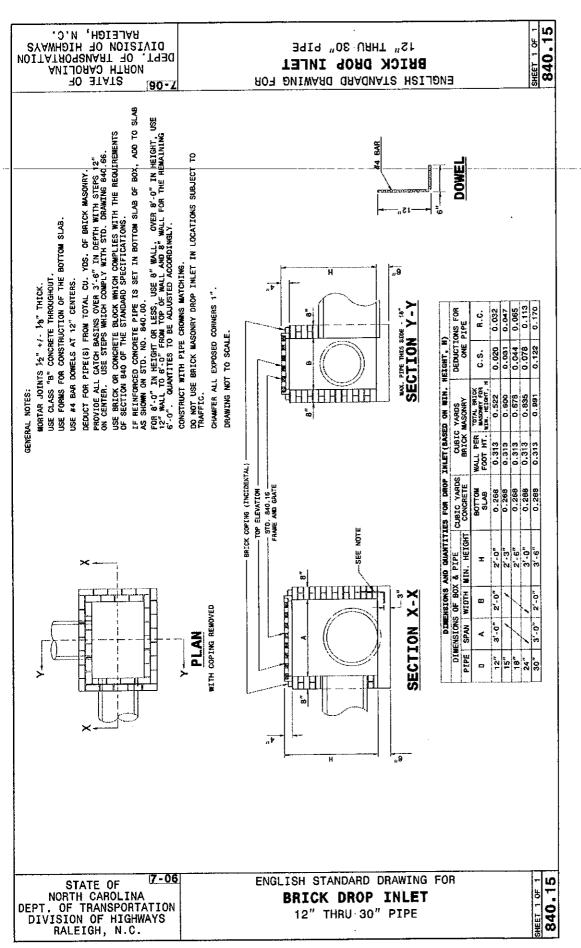
SUPER CAST, INC. 1104 US HWY. 117 BYPASS, S. GOLDSBORO, N.C. 27530 (919)736-9010 FAX (919)736-0290

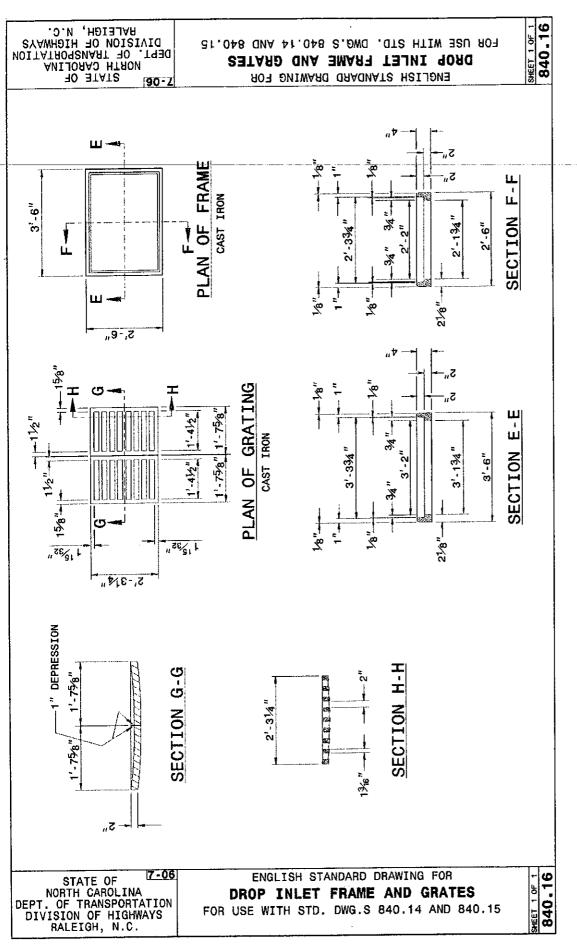
BUNCH PATTERN WORKS, INC. P.O. BOX 267 HWY 308 N. LEWISTON-WOODVILLE,N.C. 27849

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

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

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





VERIFICATION OF COMPLIANCE WITH ENVIRONMENTAL REGULATIONS

(Check Appropriate Box)

U.S. Army Corp of Engineers are not applicable federal and state regulations have	required for this project. Howe	and the ever, all
The required permits from the N.C. D. Resources and the U.S. Army Corp of Eng. Copies of permits and Completion Certifica.	ineers have been obtained for this	
All applicable NPDES Stormwater Permit re (The applicant should contact the N.C. I determine if a stormwater permit is required	Division of Water Quality in Ra	
The project is in compliance with all applications.	able sedimentation and erosion con	trol
Project Name:		
Township:	County:	er er an e mannskere e
Project Engineer:	Phone No.:	
Project Contact:	menduda	
Applicants Name:	P.E. SEAL	
Date Submitted:		
(D.C Dans 11 Jan 105	11/07/	2003
(Reference Page 11 Item 10)	11/1///	とひひみ

ATTACHMENT "A"

Seeding and mulching shall be in accordance with Section 880 of the North Carolina Standard Specifications for Roads and Structures, except that Articles 880-8 (B) shall not apply. Final determination of soil type shall be made by the Engineer. The following rates in pounds per acre shall apply:

	SAMBY SOIL	CLAY SOIL
50 <i>i</i> l	- KY 31 Tall Fescue or Alta Tall Fescue	190# - KY 31 Tall Fescue or Alta Tall Fescue
5#	- Centipede	15# - Kenblue Bluegrass
50#	- Pensacola Bahiagraus	500# - Fertllizer
500#	- Fertilizer	4000# - Limestone
4000#	- Limestone	

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

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

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