

### STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

#### **DIVISION OF HIGHWAYS**

LYNDO TIPPETT
SECRETARY

January 4, 2008

### **Chatham County**

Subject: Subdivision - Final Plan Review - Parker Springs Subdivision off of SR 1700

Development Consulting Services c/o Keith Roberts, P.E. 1401 Aversboro, Road, Suite 206 Garner, N.C. 27529

Dear Mr. Roberts:

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

- 1. All Construction is to be in accordance with the details and changes in red as shown on the plans.
- 2. A Driveway Permit #19-743 has been previously issued with this package.
- 3. The entire 50' 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.

- 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.

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

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

Yours truly,

Reuben Blakley, PE District Engineer

Renber Blakley

REB/jeb

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

MICHAEL F. EASLEY GOVERNOR DIVISION OF HIGHWAYS

LYNDO TIPPETT SECRETARY

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

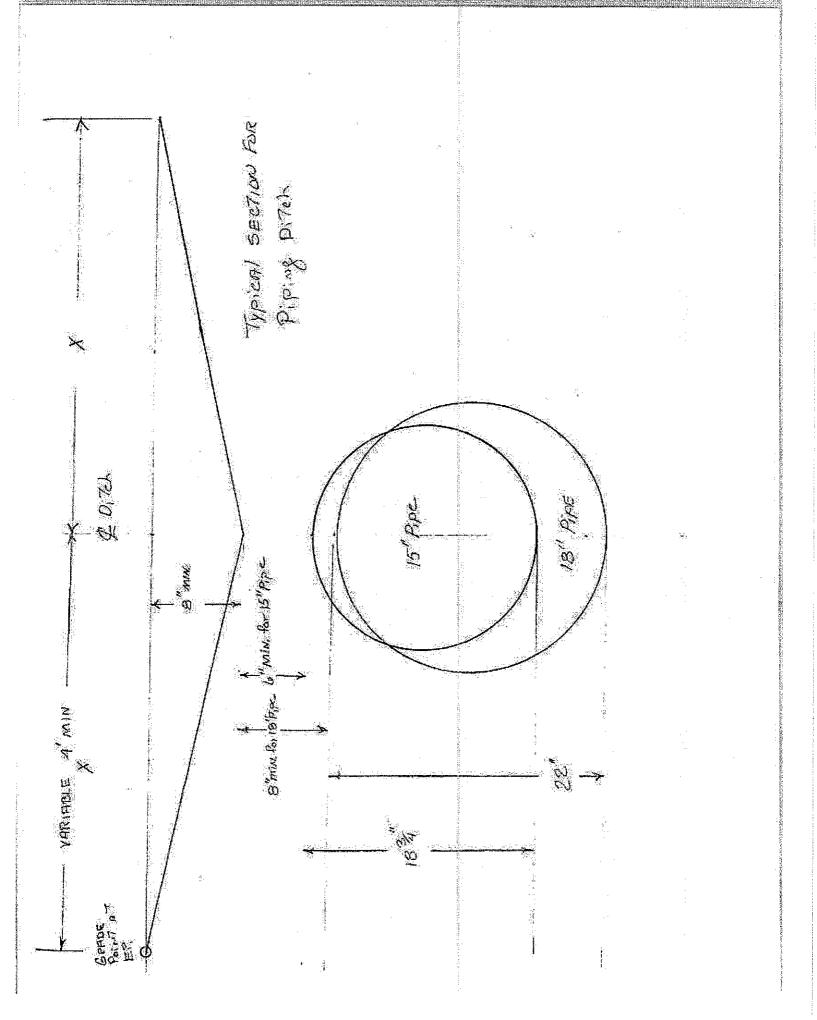
SUBDIVISION NAME:  STREET NAMES From Sta. No. To Sta. No.	
STREET NAMES From Sta. No. To Sta. No.	
This is to certify that the above listed roads have been constructed in accordance with the approved pla	ns and al
spects of the most current Subdivision Roads: Minimum Construction Standards manual.	
NAME:	
SIGNATURE:	
NC PE LICENSE #:	

Professional Engineer Seal

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

ROADWAY INFORMATION	₹: (Please Print/Type)		
County:	Road Name:		
	(Please list additional	street names and lengths on the l	pack of this form.)
Subdivision Name:		Length (miles):	
Number of occupied homes ha	aving street frontage:		10 Year Marie 1
miles N	of the intersection of Route (SF	and Route	(SR, NC, US)
We, the undersigned, being pr	roperty owners and/or developers	of	in
County, do h	nereby request the Division of Hig	hways to add the abo	ove described road.
CONTACT PERSON: Name a	nd Address of First Petitioner. (Please Print/T	ype)	
Name:		Phone Number:	
Street Address:			
Mailing Address:			
	PROPERTY OWNERS		
<u>Name</u>	Mailing Address		<u>Telephone</u>

<ul> <li>4. Adjoining property owners and/or the develope NCDOT review and approval only require the</li> <li>5. If submitted by the developer, encroachment a</li> </ul>	as spokesperson for petitioner(s)).  n plat or property deeds, which refer to candidate road. per may submit a petition. Subdivision roads with prior
FOR NCDOT USE ONLY: Please check the a	appropriate block
☐ Rural Road ☐ Subdivision platted prior to Octobe	
REQUIREMENTS FOR ADDITION	
Transportation a right-of-way of the necessary construction standards of the NCDOT. The rigin is requested to be added to the state maintain of the right-or-way for cut and fill slopes and downway at intersections for sight distance and desforms that will be submitted to us by represent cleared at no expense to the NCDOT, which is obstructions, etc.  General Statute 136-102.6 (see page 29 for Statute 136-102.6)	right-of-way will extend the entire length of the road that ned system and will include the necessary areas outside drainage. Also, we agree to dedicate additional right-ofesign purposes and execute said right-of-way agreement nearlives of the NCDOT. The right-of-way shall be
ROAD NAME HOMES LENGTH	ROAD NAME HOMES LENGTH
TONE LENGTH	NOAD NAME HOMEO ELNOTTI



## 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. I(800)626-4653 US FOUNDRY 8351 N. W.93<sup>RD</sup> ST MEDLEY, FLA.33166 (305)885-0301 FAX (305) 844-3253

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

BUNCH PATTERN WORKS, INC. P.O. BOX 267 HWY 308 N. LEWISTON-WOODVII.LE,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

### BRICK DROP INLET

ENGLISH STANDARD DRAWING FOR

NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C. **STATE OF** 90-2

DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.

USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.

USE #4 BAR DOWELS AT 12" CENTERS

CONCRETE THROUGHOUT,

MORTAR JOINTS 1/2" +/- 1/8" THICK

GENERAL NOTES:

USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS. PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

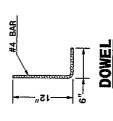
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00. FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'-0". QUANTITES TO BE ADJUSTED ACCORDINGLY.

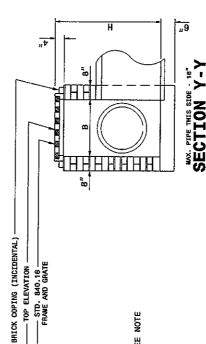
CONSTRUCT WITH PIPE CROWNS MATCHING.

DO NOT USE BRICK MASONRY DROP INLET IN LOCATIONS SUBJECT TRAFFIC. CHANFER ALL EXPOSED CORNERS 1". DRAWING NOT TO SCALE.

> - TOP ELEVATION -- STD. 840.16 --FRANE AND GRATE

> > "Þ





SEE NOTE

			_	_	_		
	UCTIONS FOR	R.C.	0.032	0.047	0.065	0.113	0.170
IEIGHT, H	DEDUCTIONS FOR	c.s.	0.020	0.031	0.044	0.078	0.122
ED ON MIN.	CUBIC YARDS BRICK MASONRY	TOTAL BRICK MASOWRY FOR MIN. HEIGHT, H	0.522	0.600	0.678	0.835	0.991
INLET (BAS	CUBIC	WALL PER FOOT HT.	0.313	0.313	0.313	0.313	0.313
JIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)	CUBIC YARDS CONCRETE	BOTTOM SLAB	0.268	0.268	0,268	0.268	0.268
AND QUANTITY	F BOX & PIPE IDTH MIN. HEIGHT	I	2′-0″	2'-3"	2'-6"	3′-0″	3'-6"
SNOI	F BOY	В	0-,	1			,-0"

3'-0"

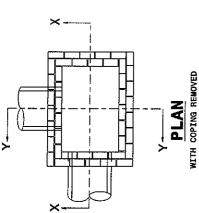
12" 15" 18,

0

24" 30"

DIMENS DIMENSIONS PIPE SPAN

SECTION

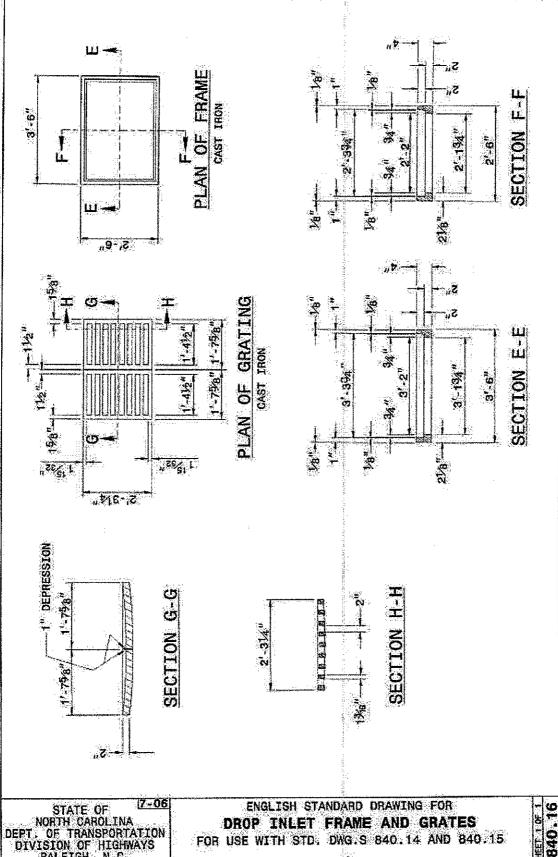


STATE OF TOTAL STATE OF NORTH CAROLINA
EPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C. 7-06 DEPT. OF

ENGLISH STANDARD DRAWING FOR BRICK DROP INLET 12" THRU-30" PIPE

840.16 SHEET 1 OF

HEET 1 OF 1



STATE OF 17-06
NORTH CAROLINA
DEPT: OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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

### VERIFICATION OF COMPLIANCE WITH ENVIRONMENTAL REGULATIONS

(Check Appropriate Box)

Permits from the N.C. Department of Environ U.S. Army Corp of Engineers are not requapplicable federal and state regulations have been	lired for this	atural Resources and the project. However, all
The required permits from the N.C. Depa Resources and the U.S. Army Corp of Enginee Copies of permits and Completion Certificates a	rs have been	ivironment and Natural obtained for this project.
All applicable NPDES Stormwater Permit requi (The applicant should contact the N.C. Divi- determine if a stormwater permit is required.)	rements have sion of Wate	been met for this project. r Quality in Raleigh to
The project is in compliance with all applicable laws and regulations.	sedimentation	and erosion control
Project Name:	SK CLOSE CONTROL OF CO	
Township:	County:	Mark Control
Project Engineer:	Phone No.:	
Project Contact:		
Applicants Name:	······································	P.E. SEAL
Date Submitted:		
	· · · · · · · · · · · · · · · · · · ·	
(Reference Page 11, Item 10)		11/07/2003

#### 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(8) shall not apply. Final determination of soil type shall be made by the Engineer. The following rates in pounds per acre shall apply:

#### SANDY SOIL

#### CLAY SOLL

50# - KY 31 Tell Fescue or Alta Tall Fescue 100# - KY 31 Tall Fescue or Alta Tall Fescue

5# - Centipede

15# - Kenblue Bluegrass

50# - Pensacola Bahlagrass

500% - Fertilizer

500# - Fertilizer

4000# - Limestone

4000# - Limestone

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

On cut and fill slopes 2:1 or steeper, add 30# Serices 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.