

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY GOVERNOR DIVISION OF HIGHWAYS

LYNDO TIPPETT SECRETARY

May 24, 2008

Chatham County

Subject: Subdivision -Final Plan Review - Henderson Place in the Henderson Place Subdivision off of SR 1835

Diehl & Phillips, P.A. c/o Alan Keith, P.E. 219 E. Chatham St. Cary, N.C. 27511

Dear Mr. Keith:

The N. C. Department of Transportation, Division of Highways has reviewed the construction plans signed and sealed by Mr. Alan Keith, P.E. on May 2, 2008 for **Henderson Place** 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.
- 2. A Driveway Permit #19-762 has been previously issued for this package.
- 3. The entire right of way is to be cleared and grubbed throughout the whole phase of the project. Please be aware that the areas within the sight distance quadrants are to be treated as right of way.
- 4. All soil areas within the proposed right of way and any other soil areas disturbed during construction shall be seeded and mulched immediately upon completion of roadway construction. The seeding shall be done as outlined in the seeding specification attachment.
- 5. The crossline drainage is approved as proposed on the construction plans. If, however field conditions dictate any changes, these shall be made 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.

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- 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.

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- 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. 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

Reuben Blakluge

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 DIVISION OF HIGHWAYS

MICHAEL F. EASLEY GOVERNOR

LYNDO TIPPETT
SECRETARY

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

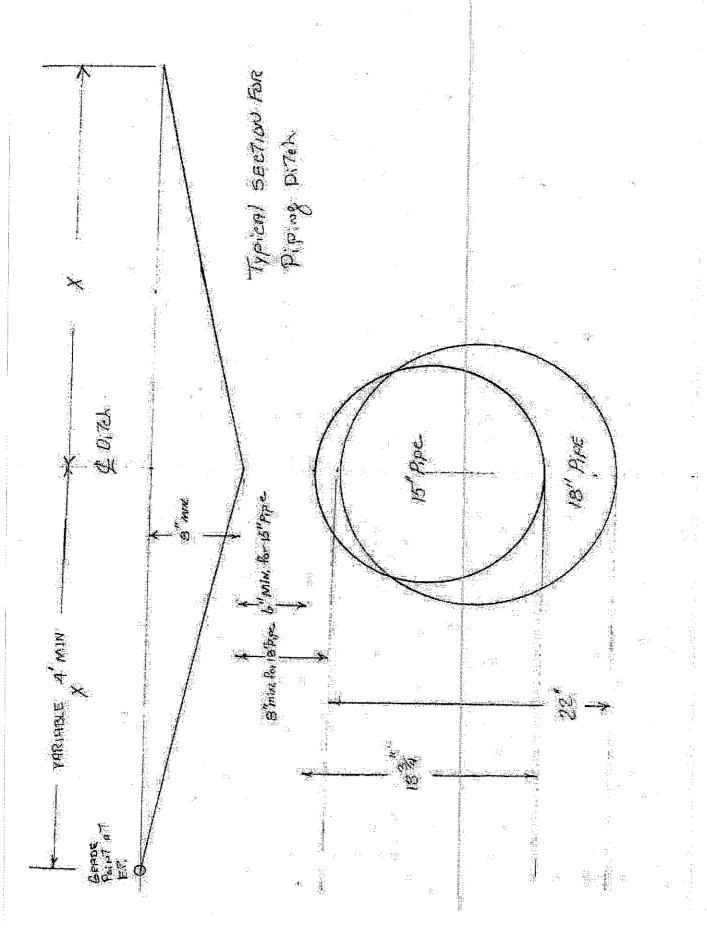
DATE:			
COUNTY:	· ····		
SUBDIVISION NAME:			
STREET NAMES	From Sta. No.	To Sta. No.	
This is to certify that the abo	ve listed roads have been con	structed in accordance with th	e approved plans and all
aspects of the most current S	ubdivision Roads: Minimum (Construction Standards manua	l .
	NAME:		
SI	GNATURE:		
NC PE	LICENSE #:		

Professional Engineer Seal

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

ROADWAY INFORMAT	「ION: (Please Print/Type)		
County:	Road Name: (Please list add	ditional street names and lengths on the l	back of this form)
	(such di uno lomi.
Subdivision Name:		Length (miles):	
Number of occupied home	es having street frontage:	Located (miles):	
miles N S E W (Check one)	of the intersection of Route	(SR, NC, US) and Route	(SR, NC, US)
We, the undersigned, beir	ng property owners and/or develo	opers of	in
County,	do hereby request the Division o	f Highways to add the abo	ove described road.
CONTACT PERSON: Na	ame and Address of First Petitioner. (Please	Print/Type)	
Name:		Phone Number:	
Street Address:	P		
Mailing Address:	W. C.		
	PROPERTY OWNE	ERS	
<u>Name</u>	Mailing Address		<u>Telephone</u>

 Identify Contact Attach four (4) Adjoining prop NCDOT review If submitted by 	rmation Section of Person (This posterior copies of record erty owners and/or and approval or the developer, estime.	erson serves a ed subdivision or the develop nly require the encroachment petition for Ro	: as spokesperson for plat or property dee er may submit a peti developer's signatur agreements from all pad addition. Howey	ds, which refer to tion. Subdivision e. utilities located wi	roads with prior	
FOR NCDOT US			· · · <u> </u>			
<u></u>	Subdivision platted	prior to Octobe	er 1, 1975	rision platted after S	eptember 30, 1975	
REQUIREMENTS	FOR ADDITION					
Transportation a construction stand is requested to be of the right-or-way way at intersection forms that will be cleared at no expostructions, etc.	right-of-way of t dards of the NC e added to the s y for cut and fill ns for sight dist submitted to us ense to the NC	the necessary CDOT. The right of the right o	for addition, we ag width to construct ght-of-way will extend ned system and will rainage. Also, we sign purposes and tatives of the NCD ncludes the remova-	the road to the end the entire ler include the nec agree to dedicat execute said riglot. The right-of all of utilities, fendal	minimum ngth of the road that essary areas outsion e additional right-on nt-of-way agreeme way shall be ces, other	de of- nt
October 1, 1975, addition to the Sta	must be built in	accordance	tatute) states that with NCDOT stand	any subdivision i ards in order to	recorded on or afte be eligible for	ŀ r
ROAD NAME	HOMES	<u>LENGTH</u>	ROAD NAME	<u>HOMES</u>	<u>LENGTH</u>	
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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

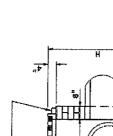
ENNIS ENTERPRISES P.O. BOX 931 WILMINGTON, N.C. 28402 (910) 371-9323

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DRAWING NOT TO SCALE.

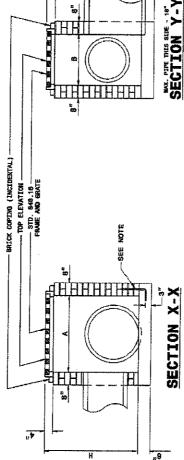
DO NOT USE BRICK MASONRY DROP INLET IN LOCATIONS SUBJECT TO TRAFFIC. CHAMFER ALL EXPOSED CORNERS 1".

CONSTRUCT WITH PIPE CROWNS MATCHING.

WITH COPING REMOVED PLAN

USE CLASS "B" CONCRETE THROUGHOUT. USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.

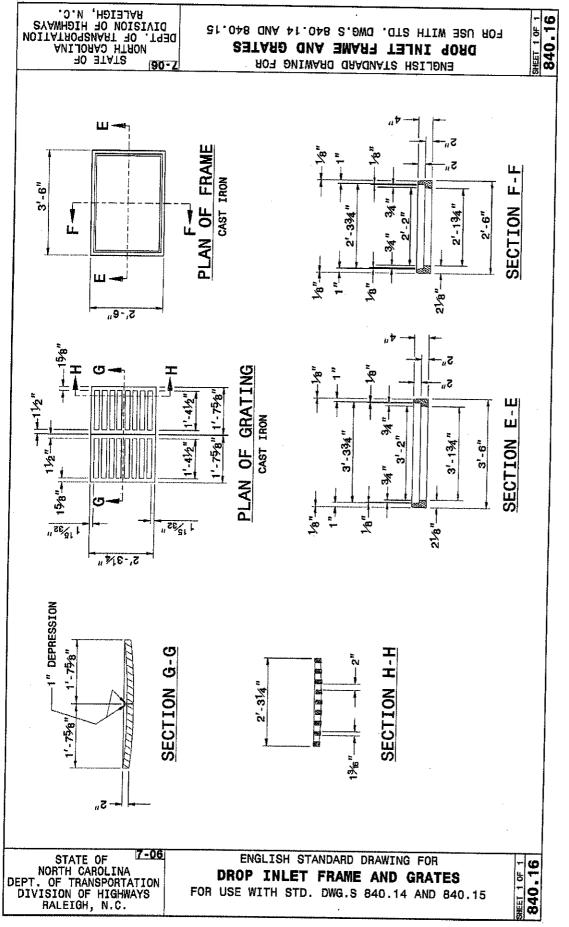
MORTAR JOINTS 1/2" +/- 1/8" THICK.



	1		ONE PIPE	B. C.	0.032	0.047	0.065	0.113	0.170
	EIGHT, #	DEDVICTTONS END	940	c.s.	0.020	0.631	0.04	0.078	0.122
	E CR MIN.	CHITE VADRE	BRICK MASONRY	TOTAL BRICK MASONRY FOR MIN. HEIGHT, H	0.522	0.600	0.678	0.835	0.991
	INLET (BASK	CHEC	HICK	WALL PER FOOT HT.	0.313	0.313	0.313	0.313	0.313
	DIEKSIONS AND GLANTITIES FOR DROF INLET (BASED ON MIN. HEIGHT, R)	CHRIC YARRE	CONCRETE	BOTTOM SLAB	0.268	0.268	0.268	0.268	0.288
		DIMENSIONS OF BOX & PIPE	MIN. HEIGHT	=	2'-0"	2'-3"	26"	3,-0,	3,-8,
		는 OH B)	WIDTH MIN.	œ	5′-0″		1	,	30. 20.
	2.0	FINSION	₩¥ďS	∢	a,-0,	1	1	. ,	3-0
		DI	PIPE	Ģ	12	12	8	24"	Š
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STATE OF 7-06
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C. 7-06 ENGLISH STANDARD DRAWING FOR BRICK DROP INLET 12" THRU-30" PIPE

HEET 1 OF 1 840.15



VERIFICATION OF COMPLIANCE WITH ENVIRONMENTAL REGULATIONS

(Check Appropriate Box)

U.S. Army applicable f	m the N.C. Depa Corp of Engine ederal and state re	eers are not egulations hav	required for e been follow	this project. ed.	However, al
Resources a	ed permits from nd the U.S. Ann ermits and Compl	y Corp of Eng	zineers have t	seen obtained	nt and Natural for this project.
(The applic	le NPDES Storm ant should conta a stormwater per	iot the N.C.	Division of \	nave been met Water Quality	for this project. in Raleigh to
The project laws and reg	s in compliance y ulations.	with all applic	ıble sediment	ation and eros	ion control
Project Nam		hander of the second of the se	Section 1		
Township:	- Samuel Company of the Company of t	A south a sout	County		
Project Engi	leer:	:60	Phone?	W.	
Project Cont	act.		i i i i i i i i i i i i i i i i i i i		
App	licants Name:			P.E.	SEAL
Date	Submitted:	Annual Harmonian Company (1987)			
(Reference Page 11	, Item 10)		which the second state of	dz.	11/07/2003

ATTACHMENT "A"

Seeding and mulching shall be in accordance with Section 680 of the North Carolina Standard Specifications for Roads and Structures, except that Articles 860-8(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 SOIL

50# - KY 31 Tall Pescue or Alta Tall Pescue

100# - KY 31 Tall Fescue or Alta Tall Fescue

5# - Centipede

150 - Kenblue Bluegrass

50# - Pensacola Bahlagrasa

500# - Fertilizer

500# - Fertilizer

4000# - Limestone

4000# - Limestone

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

On cut and £111 glopes 2:1 or steeper, edd 30# Serices Lospedeza from January 1 to December 31.

Festilizer 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.