
ADDRESS : 115 CASTLEROCK DR SUBDIV: THE SUMMIT SEC3 50 LOTS
 CONTRACTOR : DUSTIN BLACKWELL, INC PHONE : (919) 606-4696
 OWNER : DIVERSIFIED HOLDINGS LLC PHONE :
 PARCEL : 03-9587-13- -0020- -33-
 APPL NUMBER: 10-50024727 CP NEW RESIDENTIAL (SFD)
 DIRECTIONS : T/S: 06/29/2010 03:42 PM RDCONTE ---
 TAKE 27 TO ALPINE DR, T/R. T/R ON
 TIMBERLINE DR. T/R ON CASTLEROCK DR.
 S/D ON THE RT. LOT 113
 PWR CO: WAITING ON CUS

STRUCTURE: 000 000 60X50 CRAWL 3BD/2BA W/GAR, DECK & FIN BN
 FLOOD ZONE : FLOOD ZONE X
 # BEDROOMS : 3.00 PROPOSED USE : SFD
 SEPTIC - EXISTING? : SEPTIC WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	7/26/10 <u>7-26-10</u>	TI <u>AP-MR</u>	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001958867

----- COMMENTS AND NOTES -----

Soil Comp test Attached



Engineering Services, P.C.

Geotechnical Engineering Services
Construction Material Testing
Civil Quality Control

November 23, 2009

Odell Smith & Sons
400 Odell Road
Spring Lake, North Carolina 28390

Attention: Mr. Ken Smith

RE: Progress Report No. 1
Period 11/5/09 through 11/12/09
The Summit Section III
Fayetteville, North Carolina
KAM Project No. 09-062

Gentlemen:

During this time period, representatives of KAM Engineering Services, P.C. were present at the site to perform construction materials testing services. The following daily observations were made.

November 5, 2009

On this date, our representative was present to perform in place density testing for the preparation of the building pad for this project. Our testing was performed in accordance with ASTM D 1556, using data from our field one-point proctors to identify the materials. Six (6) density tests were performed on this date. The results of our testing indicate that the soils at -1' elevation have not been compacted to at least 95 percent of the Standard (ASTM D 698) Proctor maximum dry density. Retesting will be required at each location. Please refer to the attached Report of Field Density Tests for this date for locations and detailed results of our testing. **Soil Event Test 1**

Additionally, our representative was present at the site to obtain a representative sample of the soils which have been used to achieve the planned finished contours at this site. The sample were transported to our laboratory and tested in accordance with ASTM D 698 (Laboratory Compaction Characteristics of Soil Using Standard Effort), ASTM D 422 with ASTM D 1140, (Particle Size Analysis of Soils with Amount of Materials in Soils Finer than the No. 200 Sieve), ASTM D 4318, (Liquid Limit, Plastic Limit, and Plasticity Index of Soils), and ASTM D 2487, (Classification of Soils for Engineering Purposes). We have included a copy of our laboratory reports for each sample with this letter. **Soil Sample 09-712**

November 17, 2009

On this date, our representative was present to perform in place density testing for the preparation of the building pads for this project. Our testing was performed in accordance with ASTM D 1556, using data from our field one-point proctors to identify the materials. Twelve (12) density tests were performed on this date including six retests of Soil Event 1. The results of our testing indicate that the soils at -1' and at final subgrade elevations have compacted to at least 95 percent of the Standard (ASTM D 698) Proctor maximum dry density. Please refer to the attached Report of Field Density Tests for this date for locations and detailed results of our testing. **Soil Event Test 1**

610 Spring Branch Rd
Dunn, North Carolina 28334
Phone (910) 292-2085 Fax (910) 292-2087
www.KAM-Engineering.com



Closing

If you have any questions concerning this report, please do not hesitate to contact us.

**Respectfully submitted,
KAM Engineering Services, P.C.**

**Kurt A. Miller, P.E.
Senior Geotechnical Engineer**

**Enclosures Soil Test Event 1 and Event 2
 Soil Sample 09-712**

Field Density Test Report

Project: The Summit Subdivision, Section III, O'Dell Smith
Client: Odell Smith & Sons
 400 Odell Rd
 Spring Lake, NC 28390
Distribution List: odel@smithco.com
 odelbarq@mail.com
Technician: J. Lindborn
Moisture Content %: 09-0062

Test No.	Re-Test Stamp	Dry Density (pcf)	Moisture Content %	Maximum Dry Density (pcf)	Optimum Moisture Content %	Compaction %	Required Compaction %	USCS	ASTM Method	Location of Tests	Depth
1-1	11/17/09 00:00	112.4	10.1	116.2	9.3	97%	95%	SM	ASTM D 6938	Building Pad : Southeast Corner of Building Pad 12' East : 25' North	Lift 1
2-1	11/17/09 00:00	113.6	8.8	116.2	9.3	98%	95%	SM	ASTM D 6938	Building Pad : Northwest Corner of Building Pad 18' East : 20' South	Lift 1
3-1	11/17/09 00:00	114.1	9.0	116.2	9.3	98%	95%	SM	ASTM D 6938	Building Pad : Southwest Corner of Building Pad 30' East : 18' North	Lift 1
4-1	11/17/09 00:00	112.9	9.9	116.2	9.3	97%	95%	SM	ASTM D 6938	Building Pad : Northeast Corner of Building Pad 35' West : 15' South	Lift 1
5-1	11/17/09 00:00	113.3	10.4	116.2	9.3	98%	95%	SM	ASTM D 6938	Building Pad : Southeast Corner of Building Pad 25' West : 20' North	Lift 1
6-1	11/17/09 00:00	114.4	9.1	116.2	9.3	98%	95%	SM	ASTM D 6938	Building Pad : Northwest Corner of Building Pad 10' West : 16' South	Lift 1

Proctor Type: ASTM D 698 AASHTO T 99 ASTM D 1557 AASHTO T 180

610 Spring Branch Rd.
 Dunn, North Carolina 28314
 Phone (910) 436-6630 Fax (910) 292-2087
 www.KAM-Engineering.com

Reviewed By

Field Density Test Report

Project: The Summit Subdivision, Section III, O'Dell Smith
 400 Odell Rd
 Spring Lake, NC 28390

Distribution List: odellsmitthco@erbarqmail.com

09-0062

Technician : Mike Boswell

Client: Odell Smith & Sons
 400 Odell Rd
 Spring Lake, NC 28390

Test No.	Re-Test Stamp	Dry Density (pcf)	Moisture Content %	Maximum Dry Density (pcf)	Optimum Moisture Content %	Compaction %	Required Compaction %	USCS	ASTM Method	Location of Test	Depth
1		115.6	9.9	116.2	9.3	99%	95%	SM	ASTM D 6938	Building Pads : NWC 40' S : 45' E	FSG
2		113.9	10.9	116.2	9.3	98%	95%	SM	ASTM D 6938	Building Pads : SEC 50' W : 45' N	FSG
3		114.1	8.4	116.2	9.3	98%	95%	SM	ASTM D 6938	Building Pads : NWC 24' B : 30' S	FSG
4		117.9	9.0	116.2	9.3	101%	95%	SM	ASTM D 6938	Building Pads : SEC 42' W : 27' S	FSG
5		114.8	7.9	116.2	9.3	99%	95%	SM	ASTM D 6938	Building Pads : SEC 30' W : 21' N	FSG
6		113.6	8.4	116.2	9.3	98%	95%	SM	ASTM D 6938	Building Pads : SWC 50' E : 25' N	FSG

Proctor Type:

ASTM D 698

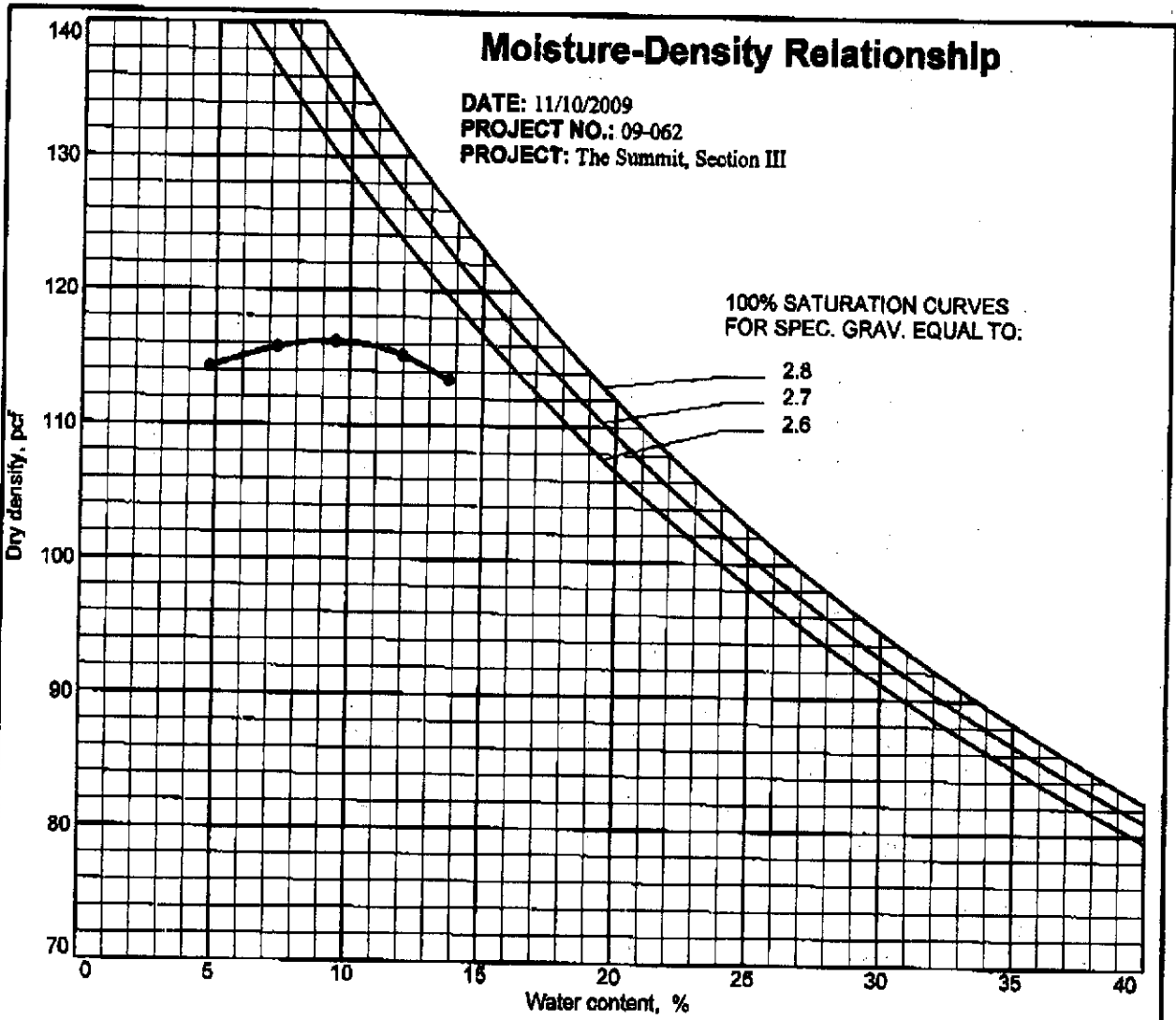
AASHTO T 99

ASTM D 1557

AASHTO T 180

610 Spring Branch Rd.
 Dunes, North Carolina 28334
 Phone (910) 436-6630 Fax (910) 292-2087
 www.KAM-Engineering.com

Reviewed By

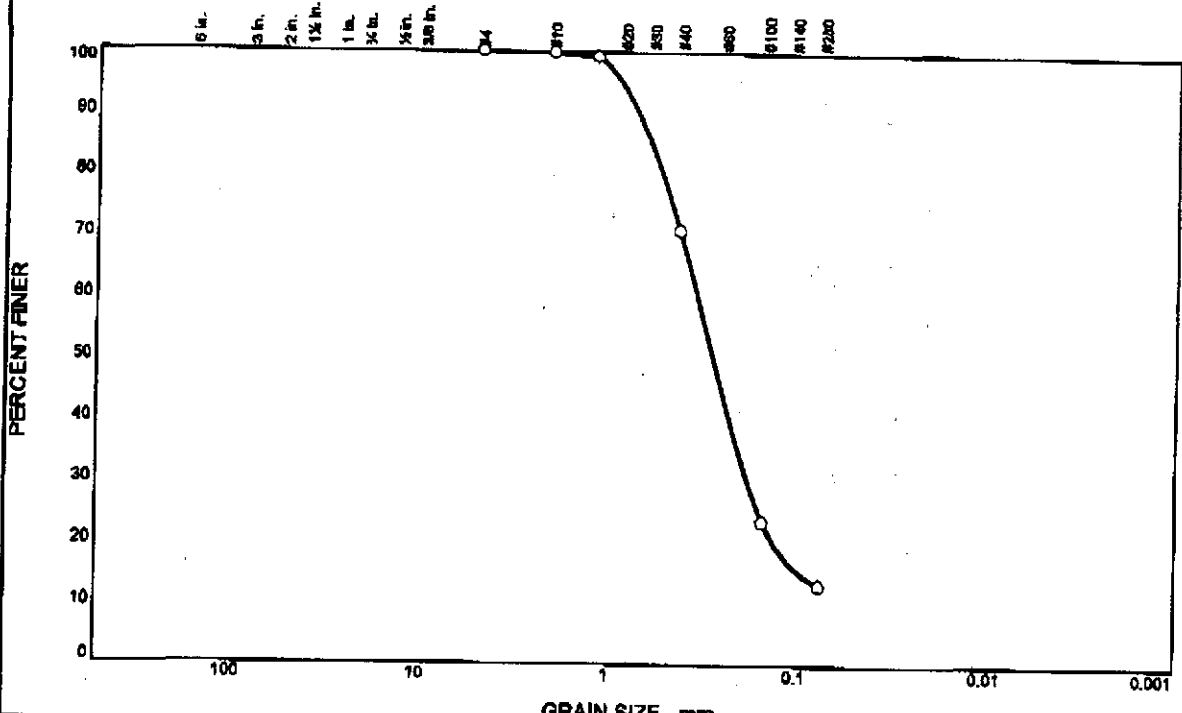


No.	LOCATION AND DESCRIPTION	TEST SPECIFICATION						
● 09-712	Location: Building Pad Tan Silty sand	ASTM D 698-00a Method A Standard						
No.	USCS	LL	PI	NAT. MOIST.	OVERSIZE	% < No.200	MAX. DRY DEN.	OPT. MOIST.
● 09-712	SM	NV	NP	5.0		12.9 %	116.2 pcf	9.3 %

KAM Engineering Services, P.C.

Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			SM	% Fines	City
	Coarse	Fine	Coarse	Medium	Fine			
0.0	0.0	0.0	0.1	29.2	57.8		12.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	99.9		
#16	99.2		
#40	70.7		
#100	23.3		
#200	12.9		

Material Description

Tan Silty sand

Atterberg Limits (ASTM D 4316)

PL= NP LL= NV PI= NP

Classification

USCS= SM AASHTO=

Coefficients

D₈₅= 0.6089 D₆₀= 0.3409 D₅₀= 0.2800
 D₃₀= 0.1821 D₁₅= 0.0955 D₁₀=
 C_u= C_c=

Date Tested: 11-6-09 Tested By: R. Heath

Remarks

(no specification provided)

Sample No.: 09-712 Source of Sample:
 Location: Building Pad
 Checked By: K. Miller

Date Sampled: 11-5-09
 Elev./Depth:

Title: Engineer

KAM Engineering Services, P.C.
Fayetteville, NC

Client: O'dell Smith and Son
 Project: The Summit, Section III

Project No: 09-062

Figure 09-712

Field Density Test Report

Project: The Summit Subdivision, Section III, O'Dell Smith
 Client: Odell Smith & Sons
 400 Odell Rd
 Spring Lake, NC 28390

Distribution List: odellsmithco@smbartmail.com

09-0062
 Technician: J. Lindboom

Test No.	Re-Test Stamp	Dry Density (pcf)	Moisture Content %	Maximum Dry Density (pcf)	Optimum Moisture Content %	Compaction %	Required Compaction %	USCS	ASTM Method	Location of Tests	Depth
1-1	11/17/09 00:00	112.4	10.1	116.2	9.3	97%	95%	SM	ASTM D 6938	Building Pads : Southeast Corner of Building Pad 12' East : 25' North	Lift 1
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3-1	11/17/09 00:00	114.1	9.0	116.2	9.3	98%	95%	SM	ASTM D 6938	Building Pads : Southeast Corner of Building Pad 30' East : 18' North	Lift 1
4-1	11/17/09 00:00	112.9	9.9	116.2	9.3	97%	95%	SM	ASTM D 6938	Building Pads : Northwest Corner of Building Pad 35' West : 15' South	Lift 1
5-1	11/17/09 00:00	113.3	10.4	116.2	9.3	98%	95%	SM	ASTM D 6938	Building Pads : Southeast Corner of Building Pad 29' West : 20' North	Lift 1
6-1	11/17/09 00:00	114.4	9.1	116.2	9.3	98%	95%	SM	ASTM D 6938	Building Pads : Northeast Corner of Building Pad 10' West : 16' South	Lift 1

Proctor Type: ASTM D 698 AASHTO T 99 ASTM D 1557 AASHTO T 180

610 Spring Branch Rd.
 Dawn, North Carolina 28334
 Phone (910) 436-6530 Fax (910) 292-2087
 www.KAM-Engineering.com

Reviewed By



Engineering Services, P.C.

EVENT NO. ST-2
11/17/2009

Field Density Test Report

Project: The Summit Subdivision, Section III, O'Dell Smith
400 Odell Rd
Spring Lake, NC 28390
Client: Odell Smith & Sons
Technician: Mike Boswell
Distribution List: odellsmithco@crbncqmail.com

No. 5390 P. 12

Test No.	Re-Test Stamp	Dry Density (pcf)	Moisture Content %	Maximum Dry Density (pcf)	Optimum Moisture Content %	Compaction %	Required Compaction %	USCS	ASTM Method	Location of Tests	Depth
1		115.6	9.9	116.2	9.3	99%	95%	SM	ASTM D 6938	Building Pads: NWC 40' S : 45' E	FSG
2		113.9	10.9	116.2	9.3	98%	95%	SM	ASTM D 6938	Building Pads: SBC 50' W : 45' N	FSG
3		114.1	8.4	116.2	9.3	98%	95%	sm	ASTM D 6938	Building Pads: NWC 24' E : 30' S	FSG
4		117.9	9.0	116.2	9.3	101%	95%	SM	ASTM D 6938	Building Pad: SBC 42' W : 27' S	FSG
5		114.8	7.9	116.2	9.3	99%	95%	SM	ASTM D 6938	Building Pads: SBC 30' W : 21' N	FSG
6		113.6	8.4	116.2	9.3	98%	95%	SM	ASTM D 6938	Building Pad: SWC 50' E : 25' N	FSG

Proctor Type:



ASTM D 698



ASTM T 99



ASTM D 1557



ASTM T 180

610 Spring Branch Rd.
Dunn, North Carolina 28334
Phone (910) 436-6630 Fax (910) 292-2087
www.KAM-Engineering.com

Reviewed By

ADDRESS : 115 CASTLEROCK DR
CONTRACTOR : DUSTIN BLACKWELL, INC
OWNER : DIVERSIFIED HOLDINGS LLC
PARCEL : 03-9587-13- -0020- -33-
APPL NUMBER: 10-50024727 CP NEW RESIDENTIAL (SFD)

SUBDIV: THE SUMMIT SEC3 50 LOTS
PHONE : (919) 606-4696
PHONE :

DIRECTIONS : T/S: 06/29/2010 03:42 PM RDCONTE ---
TAKE 27 TO ALPINE DR, T/R. T/R ON
TIMBERLINE DR. T/R ON CASTLEROCK DR.
S/D ON THE RT. LOT 113
PWR CO: WAITING ON CUS

STRUCTURE: 000 000 60X50 CRAWL 3BD/2BA W/GAR, DECK & FIN BN
FLOOD ZONE : FLOOD ZONE X
BEDROOMS : 3.00 PROPOSED USE : SFD
SEPTIC - EXISTING? : SEPTIC WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	7/26/10	MR	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001958867
	7/26/10	AP	T/S: 07/26/2010 01:00 PM MREARIC -----
B103 01	7/29/10	MR	R*BLDG FOUND & TEMP SVC POLE VRU #: 001960830
	7/29/10	AP	T/S: 07/29/2010 01:31 PM MREARIC -----
A814 01	7/30/10	TI	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 001961754
			T/S: 07/29/2010 02:31 PM RDCONTE -----
B105 01	7/30/10	TI	R*OPEN FLOOR TIME: 17:00 VRU #: 001961747
	7-30-10	AP-MR	T/S: 07/29/2010 02:29 PM RDCONTE -----

COMMENTS AND NOTES

ADDRESS : 115 CASTLEROCK DR SUBDIV: THE SUMMIT SEC3 50 LOTS
CONTRACTOR : DUSTIN BLACKWELL, INC PHONE : (919) 606-4696
OWNER : DIVERSIFIED HOLDINGS LLC PHONE :
PARCEL : 03-9587-13- -0020- -33-
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PWR CO: WAITING ON CUS

STRUCTURE: 000 000 60X50 CRAWL 3BD/2BA W/GAR, DECK & FIN BN
FLOOD ZONE : FLOOD ZONE X
BEDROOMS : 3.00 PROPOSED USE : SFD
SEPTIC - EXISTING? : SEPTIC WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	7/26/10	MR	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001958867
	7/26/10	AP	T/S: 07/26/2010 01:00 PM MREARIC -----
B103 01	7/29/10	MR	R*BLDG FOUND & TEMP SVC POLE VRU #: 001960830
	7/29/10	AP	T/S: 07/29/2010 01:31 PM MREARIC -----
A814 01	7/30/10	TW	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 001961754
	7/29/10	AP	T/S: 07/29/2010 02:31 PM RDCONTE ----- T/S: 07/29/2010 05:10 PM TWARD ----- 115 castlerock dr lot 113 sanford 27332 T/S: 07/29/2010 05:10 PM TWARD -----
B105 01	7/30/10	MR	R*OPEN FLOOR TIME: 17:00 VRU #: 001961747
	7/30/10	AP	T/S: 07/29/2010 02:29 PM RDCONTE ----- T/S: 07/30/2010 12:03 PM MREARIC -----
R427 01	8/13/10	TI	FOUR TRADE ROUGH IN >2500 VRU #: 001968775

8-13-10 AP

KS

----- COMMENTS AND NOTES -----

ADDRESS . . : 115 CASTLEROCK DR SUBDIV: THE SUMMIT SEC3 50 LOTS
 CONTRACTOR : DUSTIN BLACKWELL, INC PHONE : (919) 606-4696
 OWNER . . . : DIVERSIFIED HOLDINGS LLC PHONE :
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 S/D ON THE RT. LOT 113
 PWR CO: WAITING ON CUS

STRUCTURE: 000 000 60X50 CRAWL 3BD/2BA W/GAR, DECK & FIN BN
 FLOOD ZONE : FLOOD ZONE X
 # BEDROOMS : 3.00 PROPOSED USE : SFD
 SEPTIC - EXISTING? : SEPTIC WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	7/26/10	MR	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001958867
	7/26/10	AP	T/S: 07/26/2010 01:00 PM MREARIC -----
B103 01	7/29/10	MR	R*BLDG FOUND & TEMP SVC POLE VRU #: 001960830
	7/29/10	AP	T/S: 07/29/2010 01:31 PM MREARIC -----
A814 01	7/30/10	TW	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 001961754
	7/29/10	AP	T/S: 07/29/2010 02:31 PM RDCONTE ----- T/S: 07/29/2010 05:10 PM TWARD ----- 115 castlerock dr lot 113 sanford 27332 T/S: 07/29/2010 05:10 PM TWARD -----
B105 01	7/30/10	MR	R*OPEN FLOOR TIME: 17:00 VRU #: 001961747
	7/30/10	AP	T/S: 07/29/2010 02:29 PM RDCONTE ----- T/S: 07/30/2010 12:03 PM MREARIC -----
R427 01	8/13/10	KS	FOUR TRADE ROUGH IN >2500 VRU #: 001968775
	8/13/10	AP	
I129 01	8/16/10	MR	R*INSULATION INSPECTION VRU #: 001969658
	8/16/10	CA	T/S: 08/16/2010 11:02 AM MREARIC -----
I129 02	8/17/10	TI	R*INSULATION INSPECTION VRU #: 001970417

8-17-10 AE-MR

COMMENTS AND NOTES

Provide Access
over Dining Area

ADDRESS : 115 CASTLEROCK DR
 CONTRACTOR : DUSTIN BLACKWELL, INC
 OWNER : DIVERSIFIED HOLDINGS LLC
 PARCEL : 03-9587-13- -0020- -33-
 APPL NUMBER: 10-50024727 CP NEW RESIDENTIAL (SFD)
 DIRECTIONS : T/S: 06/29/2010 03:42 PM RDCONTE ---
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 TIMBERLINE DR. T/R ON CASTLEROCK DR.
 S/D ON THE RT. LOT 113
 PWR CO: WAITING ON CUS

SUBDIV: THE SUMMIT SEC3 50 LOTS
 PHONE : (919) 606-4696
 PHONE :

STRUCTURE: 000 000 60X50 CRAWL 3BD/2BA W/GAR, DECK & FIN BN

FLOOD ZONE : FLOOD ZONE X
 # BEDROOMS : 3.00 PROPOSED USE : SFD
 SEPTIC - EXISTING? : SEPTIC WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

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B103 01	7/29/10	MR	R*BLDG FOUND & TEMP SVC POLE VRU #: 001960830
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A814 01	7/30/10	TW	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 001961754
	7/29/10	AP	T/S: 07/29/2010 02:31 PM RDCONTE ----- T/S: 07/29/2010 05:10 PM TWARD ----- ✓ 115 castlerock dr lot 113 sanford 27332 T/S: 07/29/2010 05:10 PM TWARD -----
B105 01	7/30/10	MR	R*OPEN FLOOR TIME: 17:00 VRU #: 001961747
	7/30/10	AP	T/S: 07/29/2010 02:29 PM RDCONTE ----- T/S: 07/30/2010 12:03 PM MREARIC -----
R427 01	8/13/10	KS	FOUR TRADE ROUGH IN >2500 VRU #: 001968775
	8/13/10	AP	
I129 01	8/16/10	MR	R*INSULATION INSPECTION VRU #: 001969658
	8/16/10	CA	T/S: 08/16/2010 11:02 AM MREARIC -----
I129 02	8/17/10	MR	R*INSULATION INSPECTION VRU #: 001970417
	8/17/10	AE	T/S: 08/17/2010 02:02 PM MREARIC ----- provide access to area over dining room
H824 01	9/02/10	OT	✓ ENVIR. OPERATIONS PERMIT TIME: 17:00 VRU #: 001978816
	9/02/10	AP	T/S: 09/03/2010 10:22 AM SZIMMER ----- T/S: 09/03/2010 10:23 AM SZIMMER -----
R431 01	9/10/10	TI	FOUR TRADE FINAL >2500 VRU #: 001981026

9-10-10 AP-MR

COMMENTS AND NOTES

SHELF in bonus Rm. Closet was removed because of light encroachment.

County of Harnett
Building Inspections Department
Planning Services

Certificate of Compliance: X Occupancy: X

Certificate issued pursuant to the requirements of North Carolina General Statute 153A-363 and Harnett County Zoning Ordinances. This certifies at the time of issuance, this structure was in compliance with the various ordinances of the County of Harnett and the North Carolina State Building Codes. For the following:

Use Classification: R3

Permit Numbers

Name: Diversified Holdings LLC

Building: 10-50024727

Address: 115 Castle Rock Dr.

Electrical: 11

Insulation: 11

Plumbing: 11

Mechanical: _____

MFG Home: _____

Date: 9-10-10

Building Official: T. Michael Ream