

ADDRESS . . : 65 JAYLIN OAKS DR
CONTRACTOR : FAMILY HOME CONSTRUCTION
OWNER . . . : JS PROPERTIES #18
PARCEL . . . : 01-0513- - -0217- -18-
APPL NUMBER: 08-50020932 CP NEW RESIDENTIAL (SFD)
DIRECTIONS : 210 TOWARDS FAYETTEVILLE, TURN RIGHT AT
LIGHT ONTO RAY RD, GO DOWN 1 MILES OR
LESS AND TURN ON CREEKSVILLE CHURCH RD
TIL YOU COME TO SUBD.
T/S: 09/15/2008 12:03 PM DJOHNSON --
JAYLIN OAKS LOT 18

SUBDIV: JAYLIN OAKS
PHONE : (910) 321-1002
PHONE : (910) 551-4736

STRUCTURE: 000 000 67X68 4BDR 2BATH SFD WITH GAR, CRAWL

FLOOD ZONE : FLOOD ZONE X
BEDROOMS : 4.00
SEPTIC - EXISTING? : NEW
PROPOSED USE : SFD
WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	3/25/10 <u>3-25-10</u>	TI <u>AP JV</u>	R*BLDG FOOTING / TEMP SVC POLE TIME: 17:00 VRU #: 001899244 T/S: 03/23/2010 03:34 PM NTART TSP IS READY.

COMMENTS AND NOTES

ADDRESS : 65 JAYLIN OAKS DR
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B101 01	3/25/10 3/25/10	JH AP	R*BLDG FOOTING / T/S: 03/23/2010 03:34 PM TSP IS READY.	17:00 NTART	001899244
B103 01	4/16/10 <i>4-16-10</i>	TI <i>AP JA</i>	R*BLDG FOUND & TEMP SVC POLE T/S: 04/15/2010 02:09 PM <i>Per Engineers letter</i>	17:00 NTART	001911353

COMMENTS AND NOTES



TYNDALL
ENGINEERING & DESIGN, P.A.

1-910-773-1200 • 1-910-773-9658
69 Shipwash Drive • Garner • North Carolina • 27529
www.tyndallengineering.com

April 15, 2010

John Dietrich
2090 Orville St.
Eastover, NC 28312
Fax # 1-910-892-5762

Reference: Engineering Observation
Lot 18, Jaylin
Harnett County, NC
Project No.: 10GAR-F0297

To Whom It May Concern,

A representative of Tyndall Engineering & Design (TE&D) observed and analyzed the following foundation items:

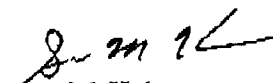
- 1) The existing concrete footing repair, due to lack of footing projection at all pier locations.

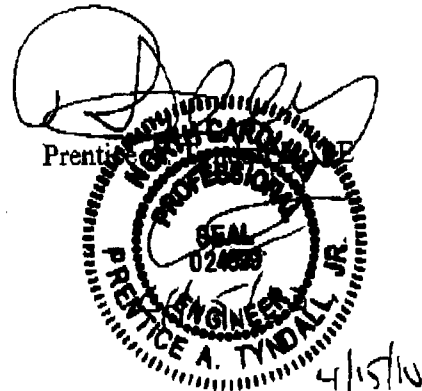
The following conclusions and recommendation were noted:

- 1) Based on our review of project documentation, our field observations and analyses, the existing projection repairs were noted adequate as constructed to support the anticipated loading conditions. The reader is referred to the attached photographs of the various phases of the footing repairs.

We appreciate the opportunity to assist you during this phase of the project. Should you need further assistance or require additional information please do not hesitate to contact us.

Sincerely,
Tyndall Engineering & Design


Sean M. Holmes
SMH\10GAR-F0297





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919 773-1200 • 919 773-0650
29 Shipwash Drive • Garner • North Carolina • 27529
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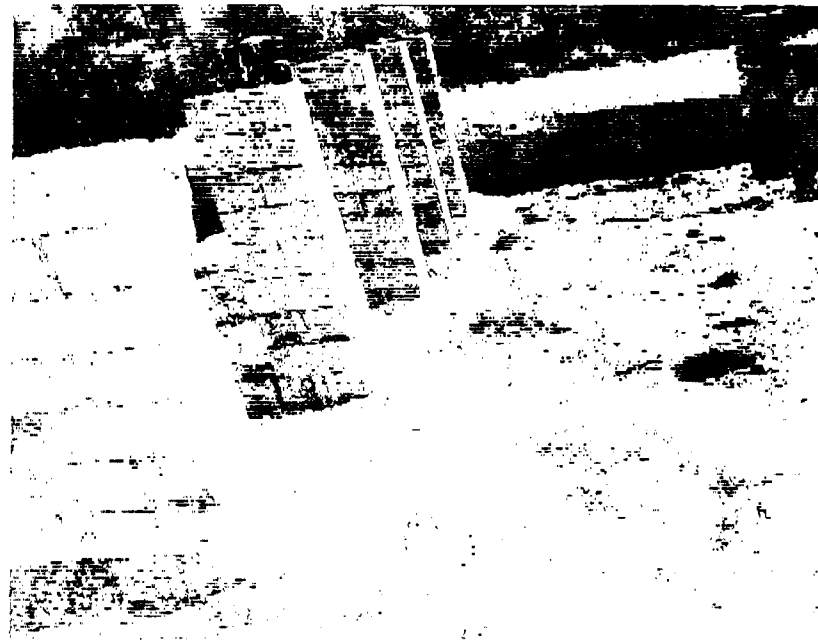
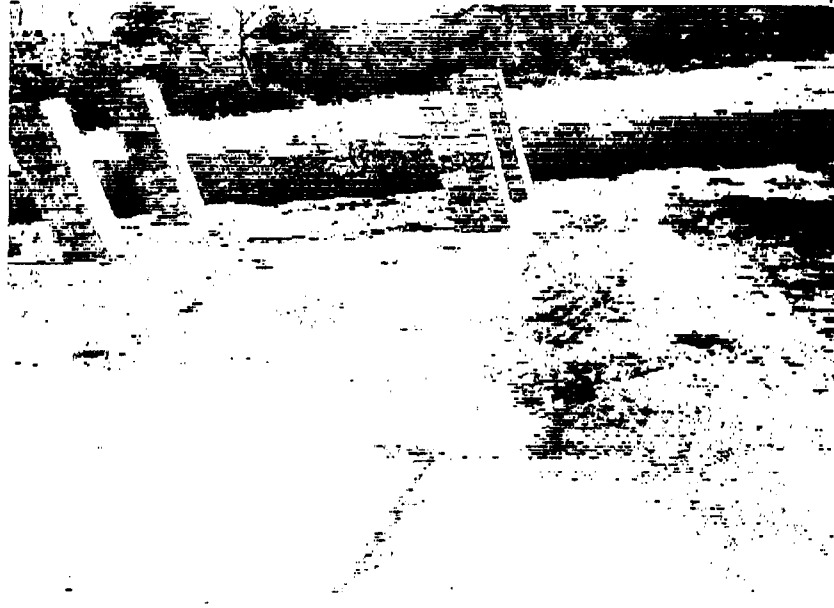
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 # BEDROOMS : 4.00
 SEPTIC - EXISTING? : NEW

PROPOSED USE : SFD
 WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

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B103 01	4/16/10 4/16/10	JH AP	R*BLDG FOUND & TEMP SVC POLE TIME: 17:00 VRU #: 001911353 T/S: 04/15/2010 02:09 PM NTART ----- PER ENGINEERS LETTER -----
A814 01	4/23/10	TI	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 001914662 T/S: 04/22/2010 11:59 AM RDCONTE -----
B105 01	4/23/10 <u>4-23-10</u>	TI <u>AP JD</u>	R*OPEN FLOOR TIME: 17:00 VRU #: 001914654 T/S: 04/22/2010 11:59 AM RDCONTE -----

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

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A814 01	4/23/10 4/26/10	TW AP	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 001914662 T/S: 04/22/2010 11:59 AM RDCONTE ----- 65 JAYLINK OAKS DR LOT 18 SPRING LAKE 28390 T/S: 04/26/2010 08:31 AM TWARD -----
B105 01	4/23/10 4/23/10	JH AP	R*OPEN FLOOR TIME: 17:00 VRU #: 001914654 T/S: 04/22/2010 11:59 AM RDCONTE ----- T/S: 04/23/2010 01:11 PM DJOHNSON -----
B101 02	5/07/10 <i>5-7-10</i>	TI <i>APJH</i>	R*BLDG FOOTING / TEMP SVC POLE TIME: 17:00 VRU #: 001922343 T/S: 05/06/2010 12:46 PM DJOHNSON ----- CUSTOMER SAID INSPECTOR SAID TO SCHEDULE FOOTING AGAIN SO THEY COULD GO BACK AND LOOK AT SOMETHING.

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B105 02	5/25/10 <i>S-25-10</i>	TI <i>AP JH</i>	R*OPEN FLOOR TIME: 17:00 VRU #: 001931476 T/S: 05/21/2010 04:42 PM NTART -----

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I129 01	6/28/10 6/25/10	RD CA	R*INSULATION INSPECTION TIME: 17:00 VRU #: 001946789 T/S: 06/25/2010 02:11 PM RDCONTE ----- T/S: 06/25/2010 02:12 PM RDCONTE ----- SET UP WRONG INSPECTION
R427 01	6/28/10 <i>6/28/10</i>	TI <i>DABS</i>	FOUR TRADE ROUGH IN >2500 TIME: 17:00 VRU #: 001946797 T/S: 06/25/2010 02:12 PM RDCONTE -----

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R427 01	6/28/10 6/28/10	BS DA	FOUR TRADE ROUGH IN >2500 TIME: 17:00 VRU #: 001946797 T/S: 06/25/2010 02:12 PM RDCONTE 1. Need engineering letter on size of garage door header (single door) and header size at bay carrying roof load. (Both are 2-2x10) 2. Need jack studs under girder truss at front closet. 3. No water on plumbing drain test. 4. Repair truss bracing cut for HVAC access. 5. Gas test must be 10 psi min 6. Repair floor joist over notched for

CONTINUED ONTO NEXT PAGE

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R331 01	6/29/10 6/25/10	TI CA	plumbing 7 .Correct housewrap missing on rear garage wall at entry door, and tape all vertical joints in housewrap. 8 .Truss bracing on wrong web trusses a-2 ala at bay end. OK TO INSULATE do not side THREE TRADE FINAL >2500 VRU #: 001946805
R427 02	6/30/10 <u>6-30-10</u>	TI <u>OK JH</u>	FOUR TRADE ROUGH IN >2500 VRU #: 001947928 Requesting an afternoon inspection. If any questions please call Steve @ 910-987-2020. <i>Item 2 not corrected will check @ insulation</i>

COMMENTS AND NOTES

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R331 01	6/29/10	TI	THREE TRADE FINAL >2500 VRU #: 001946805
	6/25/10	CA	
R427 02	6/30/10	JH	FOUR TRADE ROUGH IN >2500 VRU #: 001947928
	6/30/10	DA	Requesting an afternoon inspection. If any questions please call Steve @ 910-987-2020. Item #1 was not corrected waiting on engineer letter will check @ insulation inspection
I129 02	7/02/10	TI	R*INSULATION INSPECTION VRU #: 001949171
	<u>7-2-10</u>	<u>APJH</u>	
R127 02	7/02/10	RD	ONE TRADE ROUGH IN > 2500 VRU #: 001949163
	7/02/10	CA	R/I for BLDG T/S: 07/02/2010 07:38 AM RDCONTE ----- WRONG INSPECTION, NEEDED 4-TRADE
R127 01	7/02/10	RD	ONE TRADE ROUGH IN > 2500 VRU #: 001949155
	7/02/10	CA	R/I for BLDG T/S: 07/02/2010 07:37 AM RDCONTE ----- WRONG INSPECTION, NEEDED 4-TRADE. SCHEDULED CORRECT ONE.
R427 03	7/02/10	TI	FOUR TRADE ROUGH IN >2500 TIME: 17:00 VRU #: 001949353
	<u>7-2-10</u>	<u>APJV</u>	T/S: 07/02/2010 07:39 AM RDCONTE -----

COMMENTS AND NOTES

Project:
 Location: Roof Beam
 Multi-Loaded Multi-Span Beam
 [2009 International Building Code(2005 NDS)]
 (3) 1.5 IN x 9.25 IN x 7.75 FT
 #2 - Southern Pine - Dry Use
 Section Adequate By: 29.1%
 Controlling Factor: Moment



Todd Tucker, AIBD, CPBD
 Carolina Residential Design
 2761 County Line Rd.
 St. Pauls, NC 28384

page
 of

StruCalc Version 8.0.101.0

6/29/2010 12:44:43 PM

CAUTIONS

* Laminations are to be fully connected to provide uniform transfer of loads to all members

DEFLECTIONS

Center

Live Load 0.06 IN L/1440
 Dead Load 0.07 in
 Total Load 0.13 IN L/710

Live Load Deflection Criteria: L/360 Total Load Deflection Criteria: L/240

REACTIONS

A B

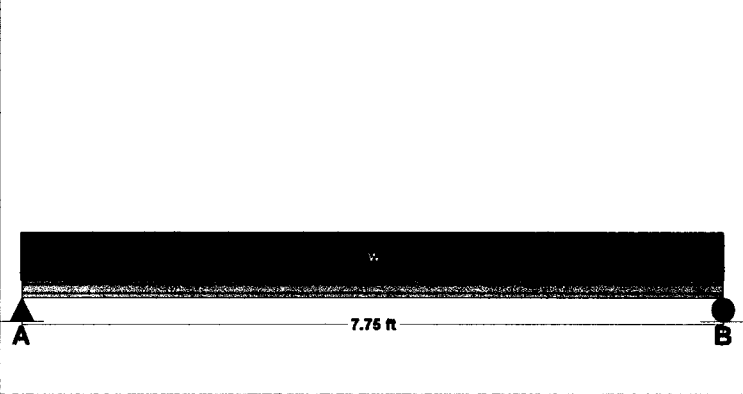
Live Load 1465 lb 1465 lb
 Dead Load 1503 lb 1503 lb
 Total Load 2968 lb 2968 lb
 Bearing Length 1.17 in 1.17 in

BEAM DATA

Center

Span Length 7.75 ft
 Unbraced Length-Top 0 ft
 Unbraced Length-Bottom 7.75 ft
 Live Load Duration Factor 1.15
 Notch Depth 0.00

LOADING DIAGRAM



UNIFORM LOADS

Center

Uniform Live Load 378 plf
 Uniform Dead Load 378 plf
 Beam Self Weight 10 plf
 Total Uniform Load 766 plf

MATERIAL PROPERTIES

#2 - Southern Pine

Base Values Adjusted

Bending Stress: Fb = 975 psi Fb' = 1389 psi
 Cd=1.15 CF=1.08 Cr=1.15
 Shear Stress: Fv = 175 psi Fv' = 201 psi
 Cd=1.15
 Modulus of Elasticity: E = 1600 ksi E' = 1600 ksi
 Min. Mod. of Elasticity: E_min = 580 ksi E_min' = 580 ksi
 Comp. ⊥ to Grain: Fc-⊥ = 565 psi Fc-⊥' = 565 psi

Controlling Moment:

5750 ft-lb

3.88 Ft from left support of span 2 (Center Span)

Created by combining all dead loads and live loads on span(s) 2

Controlling Shear:

2434 lb

At a distance d from left support of span 2 (Center Span)

Created by combining all dead loads and live loads on span(s) 2

Comparisons with required sections:

	Req'd	Provided
Section Modulus:	49.69 in3	64.17 in3
Area (Shear):	18.14 in2	41.63 in2
Moment of Inertia (deflection):	100.26 in4	296.79 in4
Moment:	5750 ft-lb	7426 ft-lb
Shear:	2434 lb	5585 lb

NOTES

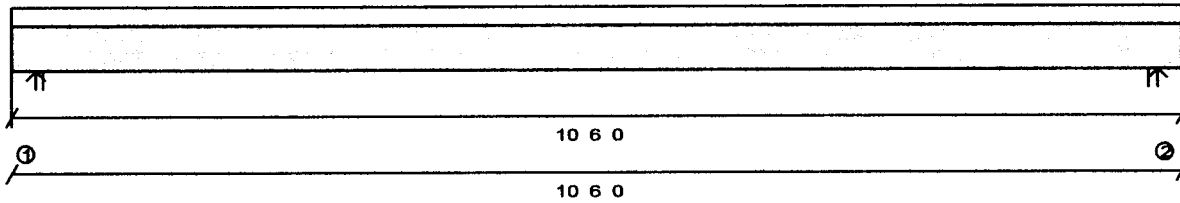
KeyBeam® 4.505a
 kmBeamEngine 4.507h
 Materials Database 1110

Member Data

Description:	Member Type: Beam Top Lateral Bracing: Continuous Bottom Lateral Bracing: None	Application: Roof Slope: 0.00 / 12
Standard Load:	Moisture Condition: Dry	Building Code: IBC / IRC
Dead Load: 20 PLF	Deflection Criteria: L/480 live, L/360 total	0.500" max. LL
Snow Load: 20 PLF	Deck Connection: Nailed	Member Weight: 8.8 PLF
	Filename: 9' Garage Do	

Other Loads

Type (Description)	Begin	End	Trib. Width	Dead Start	End	Other Start	End	Category
Additional Uniform (PLF)	0' 0.00"	10' 6.00"		270		270		Live



Bearings and Reactions

	Location	Type	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	3.500"	1.500"	2862#	-
2	10' 0.750"	Wall	3.500"	1.500"	2862#	-

Maximum Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Dead	Live	Snow
1	1503#	1358#	101#
2	1503#	1358#	101#

Design spans

10' 0.750"

Product: Broadspan 1.9E LVL 1 3/4 x 9 1/4 2 ply
 Component Member Design has Passed Design Checks.**
 Design assumes continuous lateral bracing along the top chord.
 Design assumes no lateral bracing along the bottom chord.

Allowable Stress Design

	Actual	Allowable	Capacity	Location	Loading
Positive Moment	7199.##	11905.##	60%	5.03'	Total load D+L
Shear	2423.##	6259.##	38%	0.01'	Total load D+L
Max. Reaction	2862.##	9188.##	31%	0'	Total load D+L
TL Deflection	0.2992"	0.3354"	L/403	5.03'	Total load D+L
LL Deflection	0.1420"	0.2516"	L/850	5.03'	Total load L

Control: TL Deflection

DOLs: Live=100% Snow=115% Roof=125% Wind=160%

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives



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**Passing is defined as when the member, floor joist, beam or girder, shown on this drawing meets applicable design criteria for Loads, Loading Conditions, and Spans listed on this sheet. The design must be reviewed by a qualified designer or design professional as required for approval. This design assumes product installation according to the manufacturer's specifications.

Doug Simpson
 Comtech Inc.
 P.O. Box 40408
 Fayetteville, NC 28309
 910-864-8787 Office
 910-864-4444 Fax

ADDRESS : 65 JAYLIN OAKS DR SUBDIV: JAYLIN OAKS
CONTRACTOR : FAMILY HOME CONSTRUCTION PHONE : (910) 321-1002
OWNER : JS PROPERTIES #18 PHONE : (910) 551-4736
PARCEL : 01-0513- - -0217- -18-
APPL NUMBER: 08-50020932 CP NEW RESIDENTIAL (SFD)

DIRECTIONS : 210 TOWARDS FAYETTEVILLE, TURN RIGHT AT
LIGHT ONTO RAY RD, GO DOWN 1 MILES OR
LESS AND TURN ON CREEKSVILLE CHURCH RD
TIL YOU COME TO SUBD.
T/S: 09/15/2008 12:03 PM DJOHNSON --
JAYLIN OAKS LOT 18

STRUCTURE: 000 000 67X68 4BDR 2BATH SFD WITH GAR, CRAWL
FLOOD ZONE : FLOOD ZONE X
BEDROOMS : 4.00 PROPOSED USE : SFD
SEPTIC - EXISTING? : NEW WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	3/25/10 3/25/10	JH AP	R*BLDG FOOTING / TEMP SVC POLE TIME: 17:00 VRU #: 001899244 T/S: 03/23/2010 03:34 PM NTART TSP IS READY.
B103 01	4/16/10 4/16/10	JH AP	R*BLDG FOUND & TEMP SVC POLE TIME: 17:00 VRU #: 001911353 T/S: 04/15/2010 02:09 PM NTART PER ENGINEERS LETTER
A814 01	4/23/10 4/26/10	TW AP	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 001914662 T/S: 04/22/2010 11:59 AM RDCONTE ✓ 65 JAYLINK OAKS DR LOT 18 SPRING LAKE 28390 T/S: 04/26/2010 08:31 AM TWARD
B105 01	4/23/10 4/23/10	JH AP	R*OPEN FLOOR TIME: 17:00 VRU #: 001914654 T/S: 04/22/2010 11:59 AM RDCONTE T/S: 04/23/2010 01:11 PM DJOHNSON
B101 02	5/07/10 5/07/10	JH AP	R*BLDG FOOTING / TEMP SVC POLE TIME: 17:00 VRU #: 001922343 T/S: 05/06/2010 12:46 PM DJOHNSON CUSTOMER SAID INSPECTOR SAID TO SCHEDULE FOOTING AGAIN SO THEY COULD GO BACK AND LOOK AT SOMETHING.
B105 02	5/25/10 5/25/10	JH AP	R*OPEN FLOOR TIME: 17:00 VRU #: 001931476 T/S: 05/21/2010 04:42 PM NTART
I129 01	6/28/10 6/25/10	RD CA	R*INSULATION INSPECTION TIME: 17:00 VRU #: 001946789 T/S: 06/25/2010 02:11 PM RDCONTE T/S: 06/25/2010 02:12 PM RDCONTE SET UP WRONG INSPECTION
R427 01	6/28/10 6/28/10	BS DA	FOUR TRADE ROUGH IN >2500 TIME: 17:00 VRU #: 001946797 T/S: 06/25/2010 02:12 PM RDCONTE 1.Need engineering letter on size of garage door header (single door) and header size at bay carrying roof load.(Both are 2-2x10) 2. Need jack studs under girder truss at front closet. 3.No water on plumbing drain test. 4.Repair truss bracing cut for HVAC access. 5.Gas test must

CONTINUED ONTO NEXT PAGE

 ADDRESS . : 65 JAYLIN OAKS DR SUBDIV: JAYLIN OAKS
 CONTRACTOR : FAMILY HOME CONSTRUCTION PHONE : (910) 321-1002
 OWNER . . : JS PROPERTIES #18 PHONE : (910) 551-4736
 PARCEL . . : 01-0513- - -0217- -18-
 APPL NUMBER: 08-50020932 CP NEW RESIDENTIAL (SFD)

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
R331 01	6/29/10 6/25/10	TI CA	be 10 psi min 6.Repair floor joist over notched for plumbing 7.Correct housewrap missing on rear garage wall at entry door, and tape all vertical joints in housewrap.8.Truss bracing on wrong web trusses a-2 ala at bay end. OK TO INSULATE do not side THREE TRADE FINAL >2500 VRU #: 001946805
R427 02	6/30/10 6/30/10	JH DA	FOUR TRADE ROUGH IN >2500 VRU #: 001947928 Requesting an afternoon inspection. If any questions please call Steve @ 910-987-2020. Item #1 was not corrected waiting on engineer letter will check @ insulation inspection
I129 02	7/02/10 7/02/10	JH AP	R*INSULATION INSPECTION VRU #: 001949171 T/S: 07/02/2010 10:51 AM JHALL -----
R127 02	7/02/10 7/02/10	RD CA	ONE TRADE ROUGH IN > 2500 VRU #: 001949163 R/I for BLDG T/S: 07/02/2010 07:38 AM RDCONTE ----- WRONG INSPECTION, NEEDED 4-TRADE
R127 01	7/02/10 7/02/10	RD CA	ONE TRADE ROUGH IN > 2500 VRU #: 001949155 R/I for BLDG T/S: 07/02/2010 07:37 AM RDCONTE ----- WRONG INSPECTION, NEEDED 4-TRADE. SCHEDULED CORRECT ONE.
R427 03	7/02/10 7/02/10	JH AP	FOUR TRADE ROUGH IN >2500 TIME: 17:00 VRU #: 001949353 T/S: 07/02/2010 07:39 AM RDCONTE -----
H824 01	7/15/10 7/15/10	OT AP	✓ ENVIR. OPERATIONS PERMIT TIME: 17:00 VRU #: 001955723 T/S: 07/16/2010 10:04 AM SZIMMER ----- T/S: 07/16/2010 10:04 AM SZIMMER -----
R431 01	8/16/10 <i>8-16-10 AP JV</i>	TI <i>AP JV</i>	FOUR TRADE FINAL >2500 VRU #: 001969765 Ready for final.

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

County of Harnett
Building Inspections Department
Planning Services

Certificate of Compliance: ___ Occupancy:

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: SFD

Permit Numbers

Name: Family Homes Construction

Building: _____

Electrical: _____

Address: 65 Taylin oaks dr

Insulation: _____

Plumbing: _____

Mechanical: _____

MFG Home: _____

Date: 8-16-10

Building Official: James T. Bell

08-5000939