

PREPARED BY: Harnett County

INSPECTOR: IVR

ADDRESS : 109 GRAHAMRIDGE LN
 CONTRACTOR : SHRIEVES MICHAEL
 OWNER : ANDREWS DONALD R & MARGIE N #3
 PARCEL : 04-0664- - -0038- -34-
 APPL NUMBER: 07-50017464 CP NEW RESIDENTIAL (SFD)
 DIRECTIONS : WYNDHAM PLACE #3 PHII - 401N TO
 LAFAYETTE RD RT GO CHALYBEATE SRINGS RD
 RT TO WELLS RD LEFT T RAWLS CH RD RT
 APPROX .5MILES S/D ON RT TAKE 1ST PAVED
 RT ON LEFT LOT ON LEFT OF CULDESAC. JD

SUBDIV: WYNDHAM PLACE PH 2 13LOTS
 PHONE : (919) 639-4687
 PHONE :

STRUCTURE: 000 000 45X55 3BR
 FLOOD ZONE : FLOOD ZONE X

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	7/03/07 <i>7-3-07</i>	TI <i>APBS</i>	R*BLDG FOOTING / TEMP SVC POLE VRU #: 001440202

COMMENTS AND NOTES

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	7/03/07	AP	
A814 01	7/13/07	TI	ADDRESS CONFIRMATION VRU #: 001445543
B103 01	7/13/07 <u>7-13-07</u>	TI <u>AGBS</u>	R*BLDG FOUND & TEMP SVC POLE VRU #: 001445550

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B103 01	7/13/07	BS	R*BLDG FOUND & TEMP SVC POLE VRU #: 001445550
	7/13/07	AP	no t pole at site
B105 01	7/18/07	TI	R*OPEN FLOOR VRU #: 001448320
	<u>7.18.07</u>	<u>APBS</u>	

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A814 01	7/13/07	TI	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 001445543
	7/24/07	AP	109 Grahamridge Ln Lot 3
B105 01	7/18/07	BS	R*OPEN FLOOR VRU #: 001448320
	7/18/07	AP	
R427 01	8/22/07	TI	FOUR TRADE ROUGH IN >2500 VRU #: 001471366

8/22/07 DABS

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	8/22/07	DA	1. Sheet inside garage wall w/ OSB 2. Whirlpool leaking at jets on rear of tub 3. Master lav vent leaking at elbow in ceiling 4. Need engineers letter on adding floor load above family room. Plans call it open, verify additional loads through foundation to footing. OK TO SIDE/INSULATE
I129 01	8/27/07	TI	R*INSULATION INSPECTION VRU #: 001474261
	<u>8/27/07</u>	<u>APBS</u>	
R427 02	8/27/07	TI	FOUR TRADE ROUGH IN >2500 TIME: 17:00 VRU #: 001474931
	<u>8/27/07</u>	<u>TI</u>	

COMMENTS AND NOTES

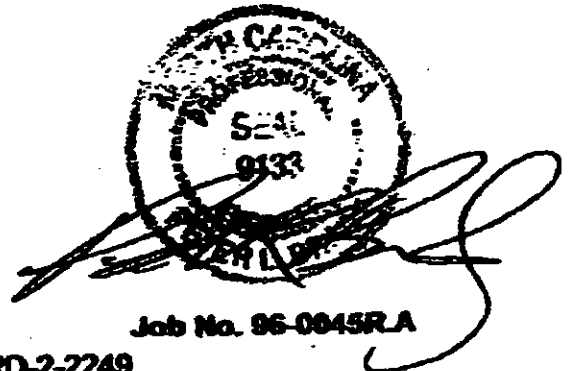
Office of the State Engineer
Peter Brady

Peter L. Brady, PE

Professional Engineer
No. 96-0045RA
Exp. 12/31/07
The State of North Carolina

July 24, 2007

Mr. John Wilson
3008 Rawls Church Road
Fuquay-Varina, North Carolina 27526



Job No. 96-0045RA

RE: **Structural Analysis, Revised**
Triangle Residential Designs, TRD Stock Plan TRD-2-2249
John Wilson, 3008 Rawls Church Road, Fuquay-Varina, NC, 27526
Residence Plan

Lot #3, Wyndham Place Sub'd.
Hamett County, North Carolina
Hamett County Permit No. _____

Dear Mr. Wilson:

At your request, I have reviewed the structural requirements for placing a floor over the family room. The developable areas of this floor area will be a game room and has been designed for a 40 psf live load. In addition the roof will be modified to include an eight foot wide gable roofed dormer.

The attached partial plans provide the details for this structural modification. The following modifications are required:



- 1) The game room dormer sidewall carrier rafters are acceptable as 2-2"x8", #2SPF, minimum rafters.
- 2) The side-to-side second floor ceiling/roof carrier beam remains appropriate as 2-1 3/4"x14" Laminated Veneer Lumber, LVLs. (minimum design strength is E = 1.9x10⁶ psi; F_b = 2600 psi and; F_v = 285 psi. However, the 2-2"x12", #2SPF or #2SYP, with a 1/2"x11" steel fitch plate option will require 3-2"x12"s with the revised roof loading.
- 3) The side-to-side game room dormer ceiling joists shall be 2"x4", #2SPF, minimum placed at sixteen inch centers.
- 4) The side-to-side game room rafters are appropriate as 2"x6", #2SPF, minimum placed at sixteen inch centers. The dormer ridge shall be a 2"x8", #2SPF, minimum. The game room dormer roof valley may be constructed by over-

framing on the main roof rafters, supporting the dormer rafters on a 2"X sleeper placed on the main roof.

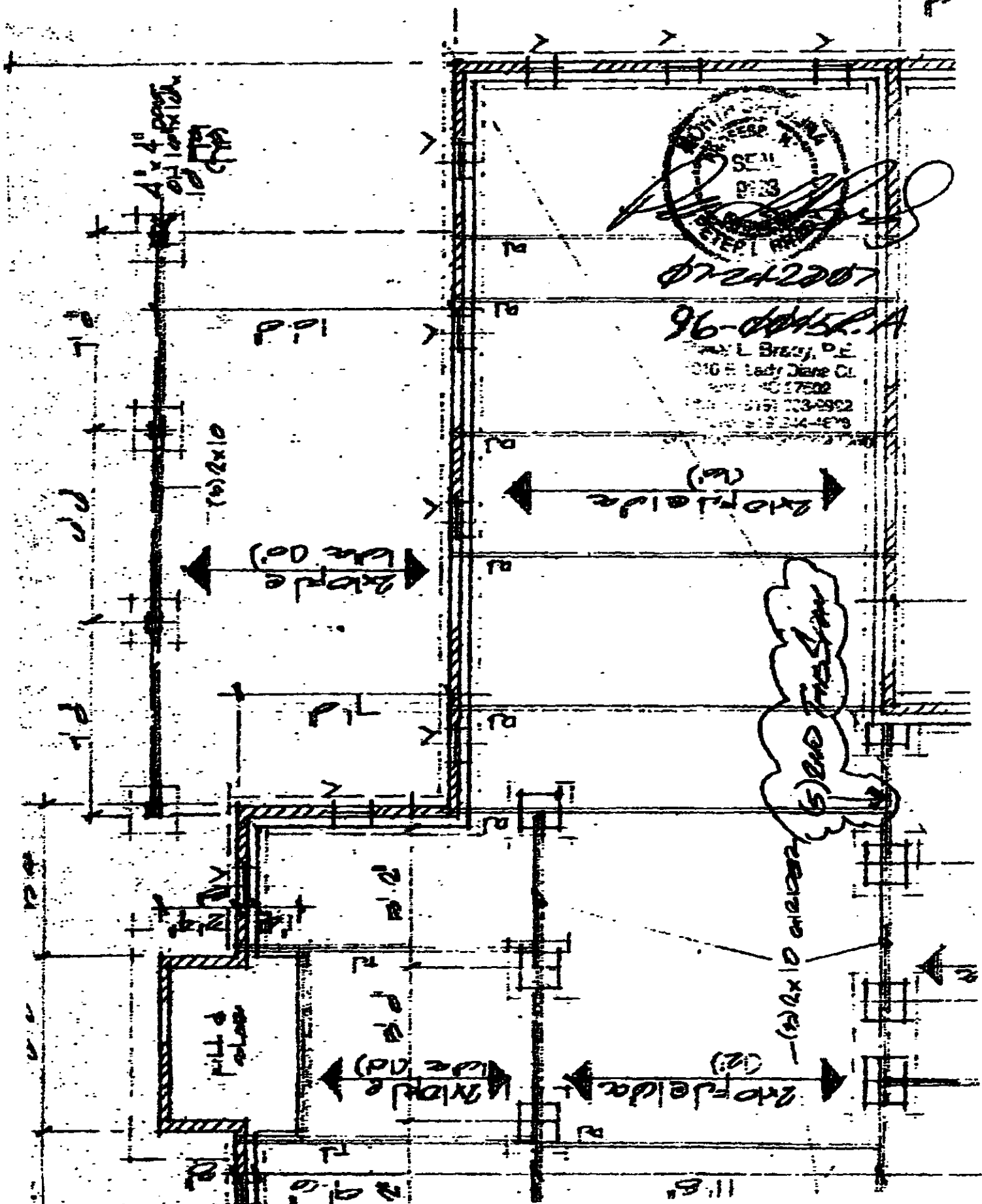
- 5) The side-to-side game room floor joists are acceptable as 2"X10", #2SPF, placed at sixteen inch centers.
- 6) Place a 2-1 3/4"X9 1/4" LVL with 1-2"X10" beam at the family room/nook common wall extending from the dining room stair/common wall to the rear nook wall. Provide three stud bearing support at the dining room/stair common wall, the rear side of the opening between the family room and nook (which bears over an underlying girder and pier) and the rear nook wall.
- 7) The side-to-side rear dining room/stair common wall girder span adjacent to the garage shall be installed as a 5-2"X10" member to support the point load from the front end of the beam described in item six, above.
- 8) Since a second floor-floor will be placed over the family room, the rear side and exterior walls of the family room do not need to be balloon framed as indicated on the plans.

Please contact me if you have any questions regarding the revised supporting structural analysis, the attached revised partial plans, the contents or conclusions of this letter or if I may be of any further assistance.

Sincerely,



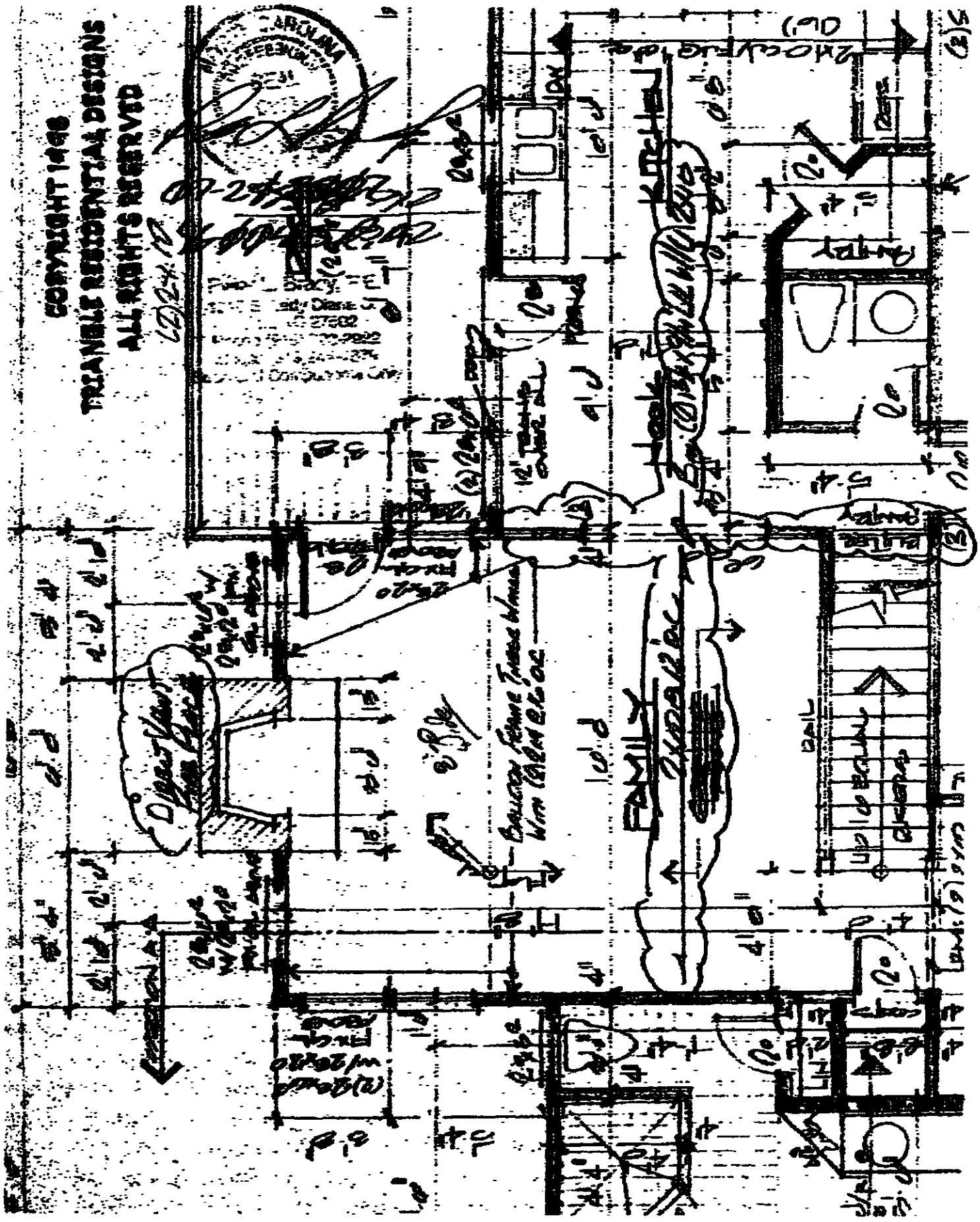
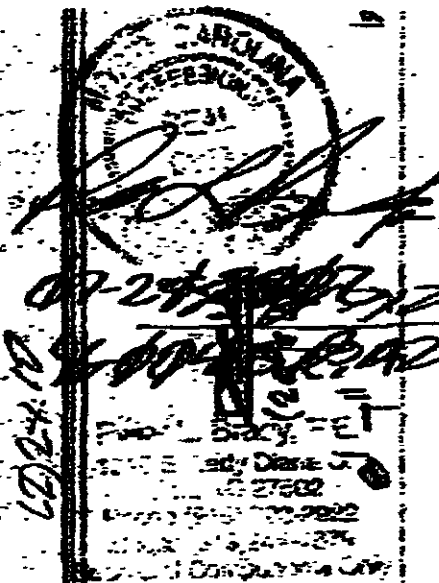
Peter L. Brady
NC PE No. 9133

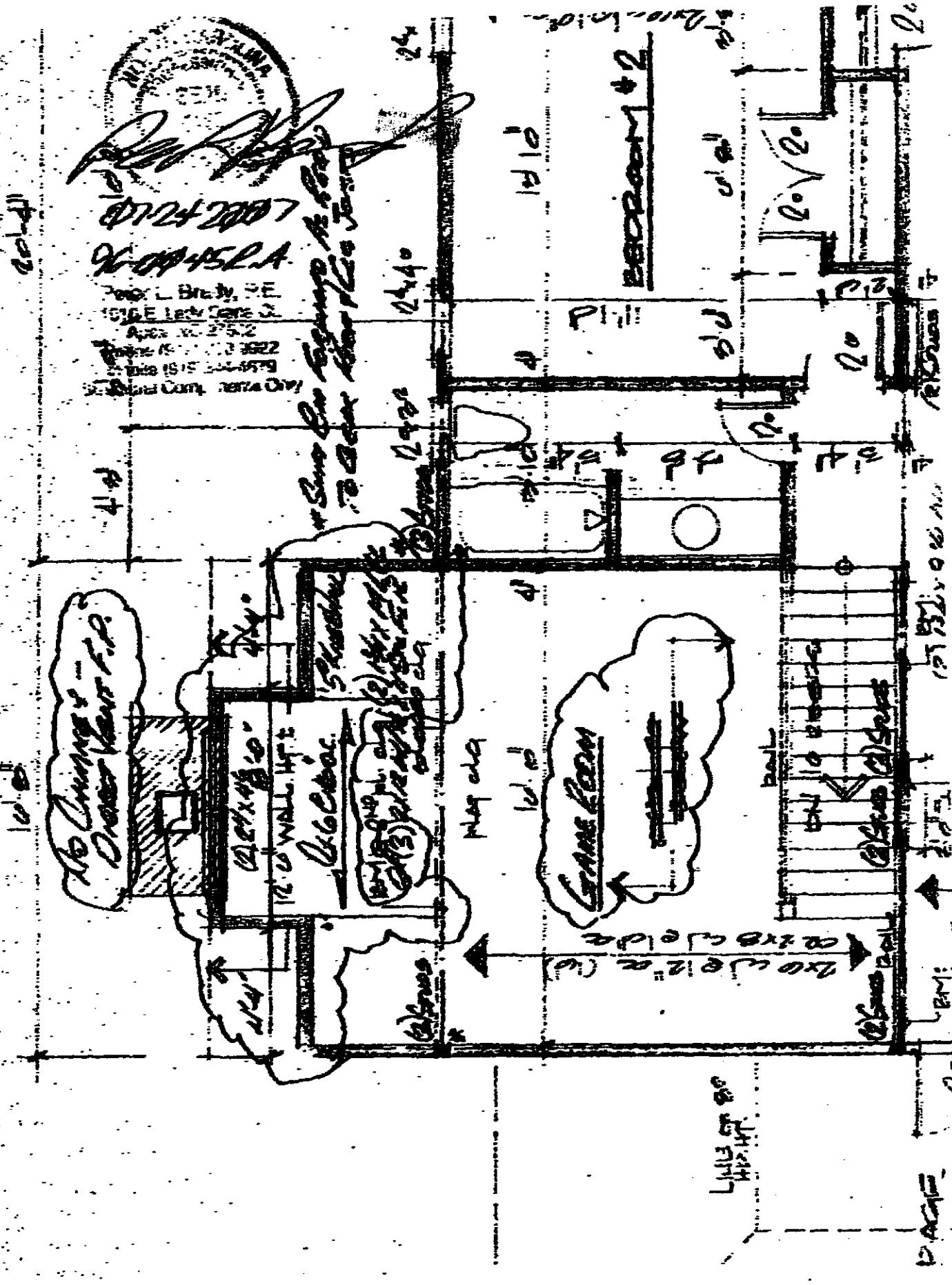


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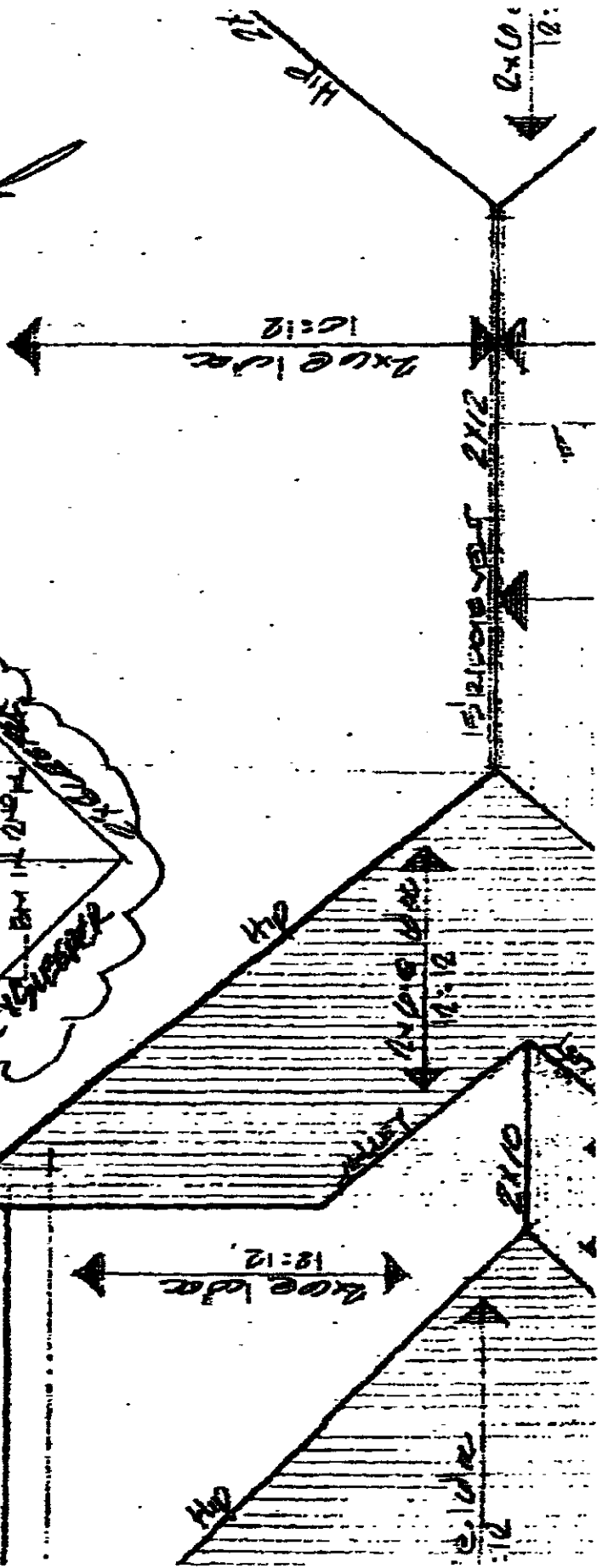
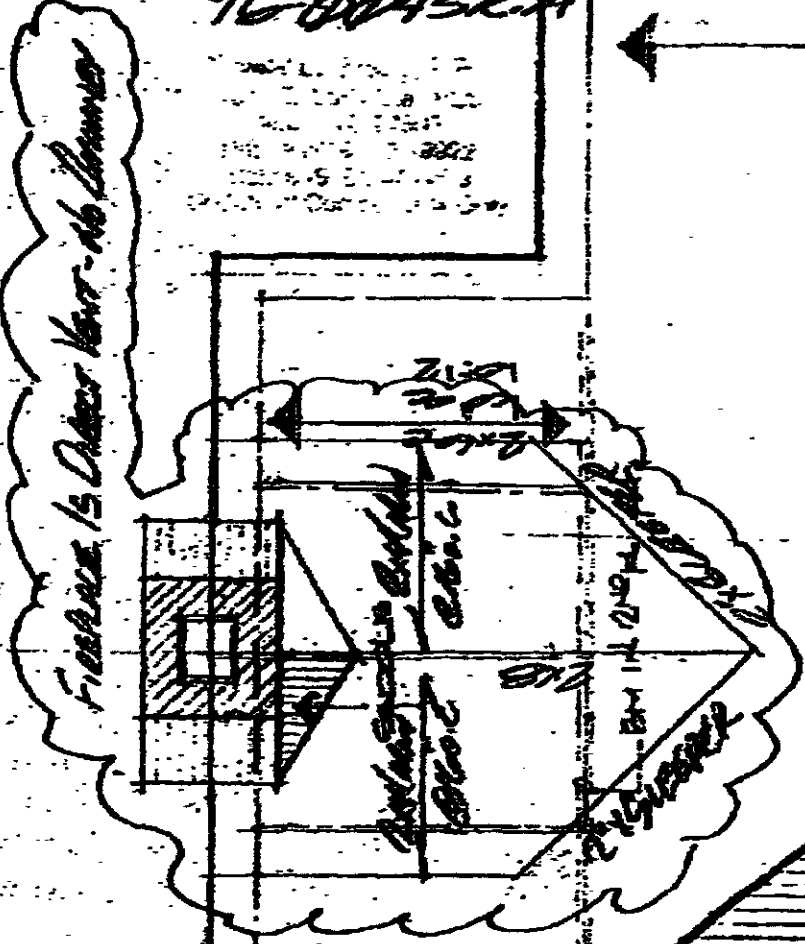
[Signature]
 07242007
 9-09-15-1-A
 POOL L. Brady, etc.
 1016E Lark Lane St.
 Ames, IA 50012
 Phone: 515-281-3822
 1016E Lark Lane St.
 Ames, IA 50012
 State Camp, Iowa City

No Changes - Dressing Room

STAIRS

1019 E.
Aspen
Mason
Structural

[Signature]
07-24-2007
96-00450-A



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H824 01	10/05/07	BM	✓ ENVIR. OPERATIONS PERMIT TIME: 17:00 VRU #: 001500446
	10/05/07	AP	
R431 01	12/07/07	TI	FOUR TRADE FINAL >2500 VRU #: 001531621

12-7-07 APBS

COMMENTS AND NOTES

**COUNTY OF HARNETT
DEPARTMENT OF BUILDING INSPECTION
AND PLANNING/DEVELOPMENT
CERTIFICATE OF OCCUPANCY**

This certificate issued pursuant to the requirements of Section 105 of the North Carolina State Building Code and the Harnett County Zoning Ordinance certifies at the time of issuance this structure was in compliance with the various ordinances of the County of Harnett regulating development and building construction or use. For the following:

Use Classification: SFD

Type of Construction: V

Owner of Building: Michael Shrieves

Building Address: 109 Graham Ridge Ln

Zoning District: _____

Zoning Permit No.: NA

Date: 12-7-07

Brad Sizer

Building Official

Conditional Use Permit No.: _____

Building Permit No.: _____

Electrical Permit No.: _____

Insulation Permit No.: _____

Plumbing Permit No.: _____

Mech. Permit No.: _____

Envir. C.O. No.: 0

Zoning Official