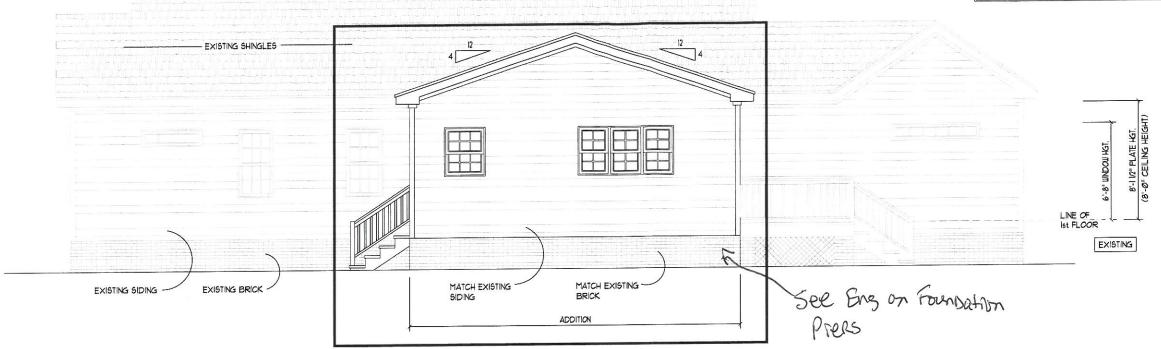
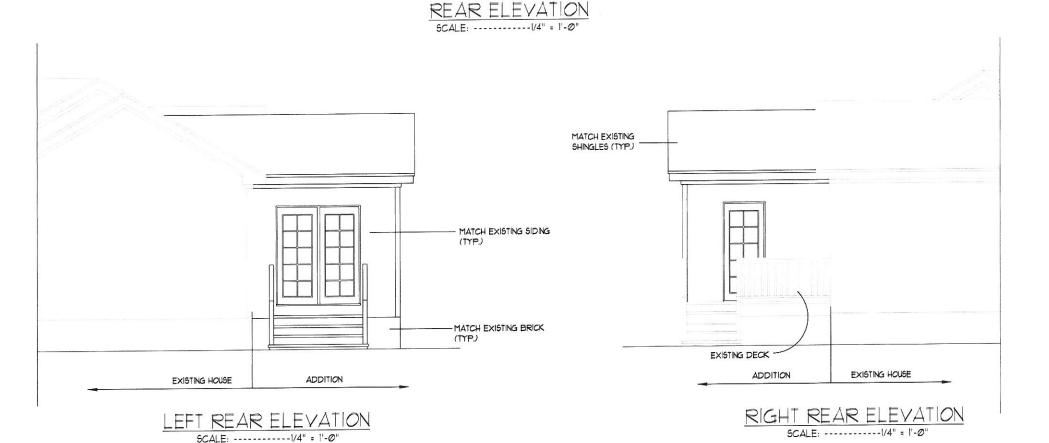
PLEASE NOTE:
EXISTING STRUCTURES MAY VARY SOME FROM WHAT IS
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CONSECTIONS OR JUSTIFICATION. ONCE CONSTRUCTION HAS
COMMENCED, THE CONTRACTOR / BUILDER AND ALL OF THE
PARTIES WORKING ON THIS ADDITION / RENOVATION SHOULD
RECHECK MEASUREMENTS PRIOR TO ANY CONSTRUCTION
AND MAKE THE NECESSARY CHANGES AND WILL ASSUME
ALL RESPONSIBILITY. DIMENSIONS GOVERN OVER SCALE,
CODES GOVERN OVER DIMENSIONS.







KATHY FICKENS 919-749-2805 kathypickensdesigns.com

DAVID & KELLY
MURPHY

FUQUAY VARINA, NC 919-414-4527

ADDRESS:

41 WOODLAND RIDGE DR

FUQUAY VARINA, NC

PLAN NO: ADDITION
DATE: 10/21/2020

DATE

The drawings and specifications / plans contain on these pages are offered to the named client or contractor for a conditional one time use. I conditional use is limited to the lot and subdivision herein, and only for the said locatic

contractor. It is the responsibility of the contractor. It is the responsibility of the contractor to ensure that all phases of construction comply with all building code requirements. The contractor is also respons for obtaining all required permits for all ph of construction.

The plan was designed to meet the requireme of the North Carolina Residential Building Cod

All structural systems and components including but not limited to, roof system, beams, header columns, cantilevers and offset load bearing we are to be sized and sealed by a structural or civil engineer and/or supplier.

It shall be the responsibility of the Owner/Contractor to restly the securacy of the information shown on these plans prior to construction. Should any inconsistency, error or emissions be found, contact Kathy Pickens Residential Designs immediately for corrections or justification. Once construction has commenced, the contractor or owner shall assume all responsibility for any errors and their costs.

Do not scale the drawings. All dimensions she be read or calculated. Written dimensions will have precedence over scaled dimensions. Codgovern over dimensions.

handled by the general contractor, unless not otherwise. Each must comply with all building code requirements.

assume liability for any deviation or construct methods of these plans, nor any changes or modifications made to these plans by others.

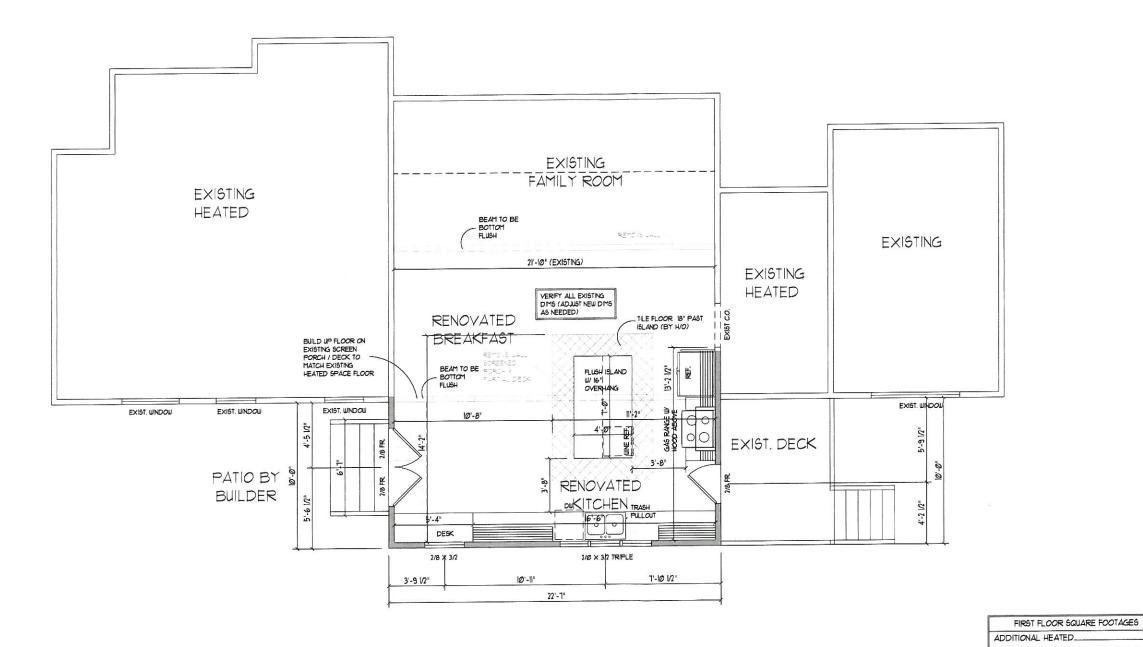
All construction, workmansing, material select and quality shall be in accordance with the North Carolina State Building Code – Residen Code 2018 Edition and local codes and regulations.

It is the responsibility of the contractor to ensure the house fits properly on the lot. Kathy Fickess Residential Designs is not responsible for any changes necessary to can the house fits according to the setbacks, subdivision regulations, etc. The boses was recipied according to dismonified that a regulation of the contraction of the contraction of the contraction of the conposition of the contraction of the conconcerns about the setbacks and the house filling correctly on the property.

ELEVATIONS

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FIRST FLOOR PLAN SCALE: -----1/4" = 1'-0"



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FUQUAY YARINA, NC 919-414-4527

ADDRESS: 41 WOODLAND RIDGE DR. FUQUAY VARINA, NC

ADDITION PLAN NO: DATE: 10/21/2020

REVISIONS	DATE

The drawings and specifications / plans contained on these pages are offered to the named client or contractor for a conditional one time use. The conditional use is limited to the lot and rubdivision herein, and only for the said location.

These plans are designed to be used by a general contractor. It is the responsibility of the contractor to ensure that all phases of construction comply with all building code requirements. The contractor is also responsible for obtaining all required permits for all phases of construction.

All structural systems and components including, but not limited to, roof system, beams, headers, columns, cantilevers and offset load bearing walls are to be sized and seaded by a structural or civil engineer and/or supplier.

All construction, workmanship, material selection and quality shall be in accordance with the North Carolina State Building Code - Residential Code 2018 Edition and local codes and regulations.

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FIRST FLOOR NOTES

I) MATCH EXISTING PLATE, CEILING AND

2) 8'-0" CLG. HGT. (8'-1 1/2" PLT. HGT.), UN.O.

3) ALL NEW WALLS FIGURED AT 4 1/2" WIDTHS. 4) SET WINDOWS AT 6'-8" AFF., UNO.

6) CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS 4 HEIGHTS.

PRESSURE RATINGS. & ROUGH OPIG'S 9) ELECTRICAL LAYOUT BY BUILDER

5) MATCH EXISTING MATERIALS, UN.O.

1) DIMENSIONS ARE TO FRAMING, UN.O. 3) CONSULT WINDOW MANUFACTURER'S SPECS. FOR EGRESS REQUIREMENTS,

WINDOW HEIGHTS, UNO.

(SEE NOTE 4)

(SEE NOTE ")

It is the responsibility of the contractor to ensure the house fits property on the lot. Eathy Pickens Besidential Beigns is not responsible for any changes necessary to ensure the house fits escording to the setbacks, subdivision regulations, etc. The house was designed according to dimension specifications for the second property of the second property of professional surveyor be hired if there are concerns about the setbacks and the house fitting correctly on the property.

1st FLOOR PLAN

A-2

	Live Load (PSF)	Dead Load (PSF)	Deflection
All Floors	40	10	1/3€0
Attic Platforms	25	20	L/360
Ceiling	10	10	L/360
Decks/Balconies	60	10	L/240
Roof	20	15	L/240
Wind Load	115 MPH (UON)	115 MPH (UON)	L/240

General Plan Reading Notes:

- 1) If any handwritten notes are provided plans must be printed in color or read digitally.
- 2) Handwritten notes in Red and Blue ink shall take priority over all printed texts.
- 3) Noted dimensions shall take priority over scaled drawings. 4) These general notes shall apply unless otherwise noted in handwriting.

Foundation Notes:

- 1) Assumed soil load bearing capacity = 2000 FSF
- 2) Minimum 28 day f'c of concrete = 3000 FSI
- 3) Foundations to be built in accordance with NCRC 2018, CH $4\,$
- "Tie-In"s shall be (2) 16" long #4 epoxy bonded dowels half embedded mid-depth into existing footings. If no footing exists, omit Tie-in
- 5) Install anchor bolts per R403.1.6.
- 6) All slabs shall be $4^{\prime\prime}$ thick, 3000 psi concrete slab on $4^{\prime\prime}$ of #57 sub-base w/ a 6 mil vapor barrier (if used in an interior or garage application) w/ 10/10 6x6 welded wire fabric UON.
- 7) All slabs shall be on compacted fill or full depth self consolidated structural fill (#57) (at porches, garages and stem wall slabs UON.
- 8) All suspended slabs on metal pans shall utilize 16GA type
- 9) Max unreinforced, unbalanced condition of any CMU wall shall be 36". Any foundation wall subjected to 24" of unbalanced fill or more shall be fully grouted. Top course of all foundation walls shall be fully grouted.
- 10) Max CMU pier height to be 4x its least horizontal dimension. All piers shall be fully grouted.
- 11) All piers shall be in the middle 1/3rd of the footing. Min 2" footing projection at each side. Max projection shall be the depth of the footing.

Footing Schedule:

- $A = 16'' \times 16'' \times 8''$ $E = 36'' \times 36'' \times 12''$
- B = 20''x20''x8'' F = 40''x40''x12'' w/ (3) \$4 EW @ bottoms
- C = 24''x24''x10'' G = 48''x48''x12'' w/ (4) \$4 EW @ bottoms.
- D = 30"x30"x12" 'All rebar in footings to have 3" cover.

Header Schedule:

- $A = (2) 2 \pi \epsilon w / (1) 2 \pi 4$ Jack @ EE B = (2)2x9 w/(2) 2x4 Jack @ EE
- C = (2)2x10 w/(2) 2x4 Jack @ EED = (2)2x12 w/(3) 2x4 Jack @ EE
- E = (2)9 1/4" LVL w/ (3) 2x4 Js @
- Use 2x6 studs in 2x6 walls. * In 2x6 walls use 3 ply headers

King Stud Schedule: '-3' wide = (1)2x4 @ EE'-6' wide = (2)2x4 @ EE 6'-9' wide = (3)2x4 @ EE * If wall is 2x6, king studs shall be 2x6.

Exterior (Load Bearing or Non-Bearing (INI) Height Interior (Load Non Bearing) (Max) Bearing) 2X4@ 24" O.C. 10' 2x4@ 16" O.C. 2x4@ 16" O.C. 2X4 @ 24" O.C 2x4@ 12" O.C. 2x4@ 12" O.C. W/ B&S 2x6 @ 16" O.C. 2x6 @ 16" O.C. 2x4@ 12" O.C. W/ B&S 2X4 @ 16" O.C. 2x4@ 12" O.C. 2x6 R 16" O.C. 2x6 @ 12" O.C. (2) 2x48 12" O.C. W/ B&S 2X4 & 16" O.C.W/ B (2) 2X4 @ 16" O.C. 2x6 @ 12" O.C. W/ B&S 2X6 @ 16" O.C. (2) 2x4@ 12" O.C. W/ B&S 2X6 @ 16" O.C. 2x4@ 12" O.C. W/ B 2x6 @ 12" O.C. 2x6 @ 12" O.C. W/ B&S (2) 2x4@ 12" O.C. W/ B (2) 2x6@ 16" O.C. W/ B&S 2X6@ 16" O.C. W/ B (2) 2X4 @ 16" OC W/ B 5) 2x6 @ 12" O.C. W/ B (2) 2x4@ 12" O.C. W/ B (2) 2x6@ 12" O.C. W/ B&S 2X60 12" O.C. 2x6 @ 12" O.C. W/ B 2x8 @ 16" O.C. W/ B (2) 2X40 16" O.C. W/B 1) (2) 2x6@ 16" O.C. W/ B 2X6 @ 12" O.C. 2X5 & 16" O.C. 2×8 R 16" O.C.

- Table based on 115 MPH wind zone, Exposure B, L/240 deflection
- B= Blocking: 2x Horizontal blocking at 6' p.c. vert. with (2) 10d nails @ EE
- S= Strapping: CS22 strapping to the interior face of the center 2/3rd height of every other stud. Half populate with 10d x 1.5" nails.
- If wall supports 2 stories and a roof, add 2' to the actual wall height and apply the table.
- If wall supports only roof, subtract 2' to the wall actual wall height and apply the table
- Praming Notes: 1) All dimensional lumber to be Spruce Pine Fir No.2 or better.
- 2) Engineered Beams single ply = 1.75" wide w/ Fb of: LVL= 2600 psi, LSL = 2325 psi. FSL (columns) shall be 3.5" wide w/ F'b = 1344 psi
- 3) All floor framing per NCRC 2018 CH S. All Wall framing per NCRC 2018
- 4) All I-joists and floor truss framing per supplier's specifications and layout.
- 5) All structural steel shall be ASTM A-36; Fy= 36 KSI.
- 6) All weld material shall be 70 KSI material.
- 7) All welds to be installed by a certified AWS welder.
- S) Install double joist under all walls parallel with joists.
- 9) Typically, load bearing walls (LBW) are shown hatched in red. Nearby girders and beams should be assumed to be directly supporting these LBWs. UON.
- 10) All LVL beams of 3 ply or more shall be fastened with "" dia bolts at 16" o.c. staggered w/ 2" min edge distance from top/bottom edge UCN. 2 ply LWLs shall be fastened with (4) \$5 3" long wood screws UON.
- Circled numbers indicate number of 2x4/2x6 studs in a stud column. Strap all stud columns of 4 or more with (3) horizontal CS22 straps.
- 12) All beam bearings shall be no less than 3". All other bearing to be 2" min.
- 13) All hangers shall be standard, appropriately sized face mounted UON. Consult Simpson catalog or local supplier. High capacity hangers will be load rated on plans.
- 14) Install all hardware per manufacturer's guidelines.

Lateral Bracing:

- 1) Unless otherwise noted, lateral bracing is found sufficient and compliant with minimum requirements set forth in NCRC 2018 Table R602.10.2 provided all exterior walls are sheathed at the exterior per CS-WSP, R602.10.3 which includes 2x4 (min) studs at 16" o.c. sheathed with 7/16" OSB w/ (1)8d mail at 6" o.c. edge and (1) 9d nail at 12" o.c. field. Typically, required length of CS-WSP at each designated shear walls are shown on plans.
- 2) All noted Portal Frame (F-F) shall be compliant with R602.10.1
- 3) All locations noted with "HD" shall be 900 lbs min capacity. Options include 36" long CS16 straps fully populated with 10d nails, centered at interface, Simpson MSTC66B3Z or Simpson LSTA21. Install CS16 strap from top plate to 16" below top of stud.
- 4) Minimum corner return in each direction shall be 24" of wood structural panel unless otherwise noted.
- Walls noted as GB2 shall be framed in accordance with R602.10.2

Wood Deck Notes:

- All lumber to be pressure treated Spruce Pine Fir No 2 or better.
- 2) Band attachments to be installed per NCRC 2018, Appendix M (AM 104.1(1))
- Install lateral bracing AM109.1
- Install handrails per AMIII.1 Max Post Heights per AM 108.1
- 6) Stair Stringers per AM 107.1

Screened in and Covered Porch Notes:

- All wood deck notes apply.
- 2) Posts to be attached to footings, slab or CMU piers using ABU44 or ABU66 post base (or applicable size).
- 3) Uplift for posts to headers may be either (2) Simpson LCE4, (2) Simpson GA2 clips with 3" long \$9 screws or {4} 4" diameter, 5" long LedgerLoks driven at a 45" degree angle to each side of posts or notched 50% width w/ (2) LedgerLoks.
- 4) Uplift for posts to floor framing may be either (2) Simpson GA2 clips with 3" long #9 screws or (4) 4" diameter, 5" long LedgerLoks driven at a 45" degree angle to each side.

Roof Framing Notes:

- 1) All roof framing shall be in accordance with NCRC 2018 CH 9.
- 2) All dimensional lumber to be Spruce Fine Fur No.2 or better.
- All flat valleys for over-framed roofs shall be attached using (3) 3" long #9 screws at each main
- height eave to ridge up from eave nailed with (5) 10d nails at each end. UON

General Construction Notes:

- 1) All temporary shoring, means and methods are the responsibility of the contractor.
- All dimensions to be verified by the contractor in the field.
- Takla Engineering assumes no responsibility for safety of project delivery.
- 4) Any questions pertaining to structural components should be immediately brought to the attention of Takla Engineering.
- with the standard of practice for structural engineering and within the limits imposed by scope, schedule and budget. The determinations contained in this report are based on conditions observed at the time of the evaluation. No quarantees or warranties, expressed or implied, under this Agreement or otherwise, shall be construed in connection with services provided. Sequencing, shoring, means and methods of construction are considered beyond the scope of this design. Takla Engineering shall not be

Gypsum Board (shear wall) GB Girder Roof Truss GRT

HGR Hanger HD Holddowns

LBW Load Bearing Wall MANUF

o.c. On Center O.F.

Pressure Treated P.T. Roof Truss R.T.

4) Sheath with 7/16" OSB w/ 9d nails at 6" o.c. edge and 12" c.c. field.

5) All collar ties to be installed no higher than 1/3rd

E) Roof trusses per others; installation per supplier

5) Limitations: Services provided are in accordance

Abbreviations: any safety aspect of Work.

ADDI	eviations.	
•	CONC	Concrete
•	CONT.	Continuous
•	C.J	Ceiling Joists
•	CMU	Conc Masonry Unit
•	CS-WSP	Sheathing per R602.10.3
•	DIA	Diameter
•	DBL	Double
•	DJ / DR	Double Joist / Rafter
•	EQ	Equal
•	EE	Each End
•	FJ	Floor Joist
•	FND	Foundation
•	FT	Floor Truss
•	FTG	Footing
	CP	Compum Board (shear wall

Manufacturer NTS Not To Scale

Over-framed (roof) Portal Frame PF Point Load PT.

Stud Column SC SIM Similar SIGR Staggered

Supplier SUP Typical TYP.

UON Unless Otherwise Noted



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Dr

41 Woodland Ridge I Fuquay Varina, NC Scott Corcoran Scott Corcoran Structural Notes 0508-20

Project: Location: Company: Care of: Subject: Job No.:

[X] For Construction [] Not for Construction

PROJ# 0508-20 DATE: 11/22/20 REVISIONS: 1

> SHEET TITLE: STRUCTURAL

> > NOTES

SHEET:

2 of