

# STRICKLAND RESIDENCE

## 471 SE DEFENDER DRIVE

### COLUMBIA COUNTY, FL 32025



PLANS PREPARED BY:  
CHRISTOPHER Q. DICKS, P.E. 64766  
4037 SE CR 252, LAKE CITY, FL 32025

THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY

Christopher Q Dicks  
Professional Engineer  
No. 64766  
State of Florida  
Date: 2025.05.15 10:02 AM



ON THE DATE ADJACENT TO THE SEAL

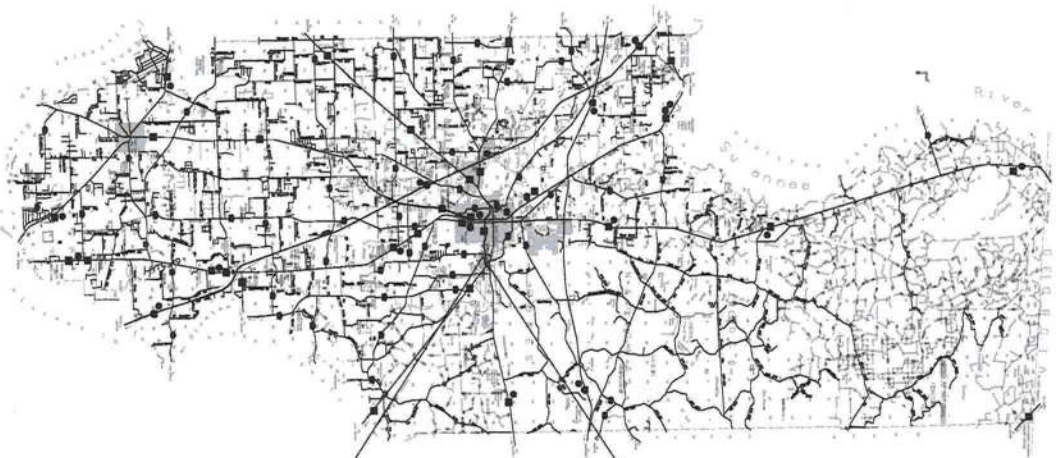
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CHRISTOPHER Q. DICKS, P.E. NO. 64766  
4037 SE COUNTY ROAD 252  
LAKE CITY, FL 32025

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE  
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61g15-23.004, F.A.C.

#### PLAN SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE / INDEX SHEET
2	DESIGN CRITERIA / DETAILS / TYPICAL
3	PLAN / ELEVATION VIEW



EXISTING  
STRUCTURE



STRICKLAND RESIDENCE  
COLUMBIA COUNTY, FLORIDA

SHEET  
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DESIGN STATEMENT AND INTENT:

I WAS CONTACTED TO REVIEW AND EVALUATE THE STRICKLAND RESIDENCE AT 471 SE DEFENDER DRIVE FOR ROOF DAMAGE FROM A FALLEN TREE. THE STRUCTURE IS 25' x 59' RECTANGULAR SHAPE, WITH A 7' x 24' OPEN CONCRETE PORCH.  
THE ROOF OVER THE GARAGE SUSTAINED DAMAGE TO THE RAFTERS, THE ROOF SHEATHING, THE STEEL SUPPORTING THE BRICK LINTEL OVER THE GARAGE DOOR AND THE GARAGE CEILING.  
THE ROOF OVER THE PORCH SUSTAINED DAMAGE TO THE RAFTERS, THE ROOF SHEATHING, THE PORCH CEILING AND THE PORCH BEAM AND POSTS.  
THE REPAIRS CONTAINED IN THESE PLANS ARE NECESSARY TO MEET THE DESIGN REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION (2020).

DESIGN CRITERIA

1. DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 7TH EDITION (2020).
- CODE REFERENCES:  
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)  
SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS (ACI 301-16)  
BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13)  
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2015 EDITION  
APA PLYWOOD DESIGN SPECIFICATION  
NATIONAL ELECTRICAL CODE, 2017

3. ALL COMPONENTS, SYSTEMS AND EQUIPMENT NOT SPECIFICALLY COVERED BY THESE PLANS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE CODE(S).

4. PROJECT INFORMATION:  
OCCUPANCY GROUP: R-3  
MEAN ROOF HEIGHT: 17'  
ROOF CROSS SLOPE: 4:12  
WALL HEIGHT: 8' above slab  
ROOF SNOW LOAD: ZERO psf  
SEISMIC DESIGN CATEGORY: A  
FLOOD DESIGN DATA: ZONE X

5. WIND LOADS IN ACCORDANCE WITH ASCE MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7)

FLOOR AND ROOF LIVE LOADS  
UNINHABITABLE ATTICS: 20 psf  
HABITABLE ATTICS: 30 psf  
ALL OTHER ROOMS: 40 psf  
ROOF-S: 20 psf

WIND DESIGN DATA  
ULTIMATE DESIGN WIND SPEED,  $V_{ult}$  (3-SECOND GUST): 120 mph  
NOMINAL DESIGN WIND SPEED,  $V_{nsd}$ : 93 mph  
EXPOSURE CATEGORY: B  
IMPORTANCE FACTOR: 1.0  
RISK CATEGORY: II  
ENCLOSURE CLASSIFICATION: ENCLOSED  
INTERNAL PRESSURE COEFFICIENT: +/- 0.18

COMPONENT AND CLADDING DESIGN PRESSURES (psf)

ROOF ZONE 1, 2e: 9.6 -23.56  
ROOF ZONE 2f: 9.6 -34.36  
ROOF ZONE 2n: 9.6 -34.36  
ROOF ZONE 3e: 9.6 -34.36  
ROOF ZONE 3f: 9.6 -40.94  
WALL ZONE 4: 12.75 -13.83  
WALL ZONE 5: 12.75 -17.07

6. STRUCTURAL DESIGN CRITERIA

LIVE LOADS  
ROOF: 20 psf

WIND LOADS (BASED ON ASCE 7-16)  
VELOCITY: 120 mph, USE FACTOR 1.0

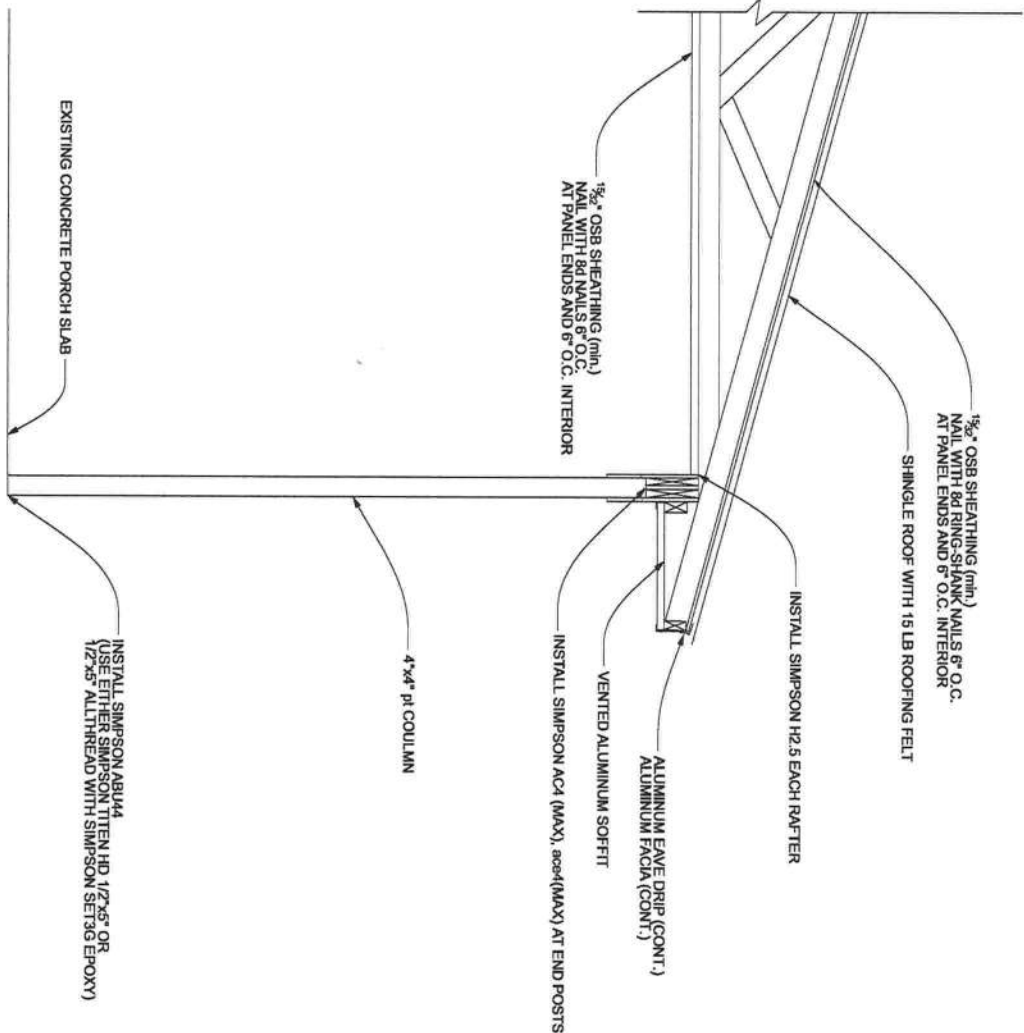
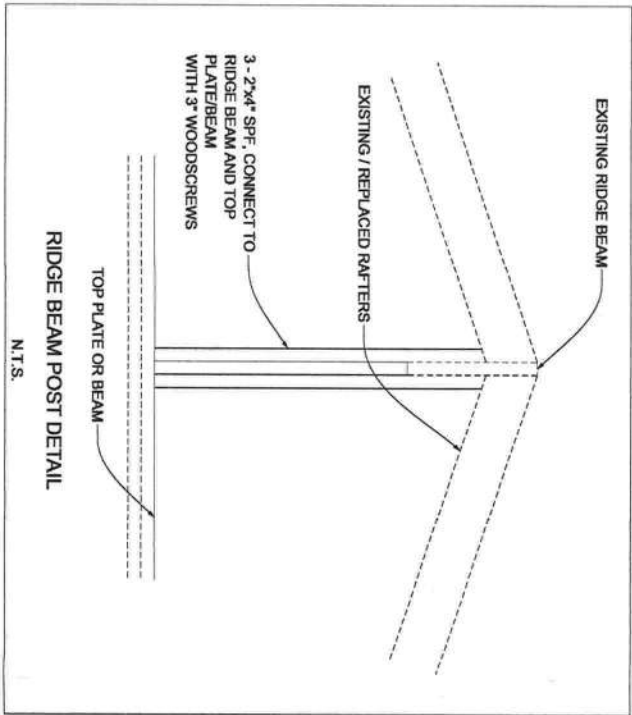
STRUCTURAL STEEL:

ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 psi, U.N.O.  
ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307

WOOD FRAMING:

BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O.  
NO. 2 SOUTHERN YELLOW PINE (19% M.C.)  
ROOF DECK: PLYWOOD C-C-C-D, EXTERIOR OR OSB  
WALL SHEATHING: PLYWOOD C-C-C-D, EXTERIOR OR OSB

WOOD ROOF TRUSSES (DESIGN LOADS):  
TOP CHORD LIVE AND DEAD LOAD 30 psf  
BOTTOM CHORD DEAD LOAD 10 psf  
TOTAL 40 psf



PORCH POST TYPICAL

DESIGN CRITERIA / STRAPPING AND ANCHOR REQUIREMENTS

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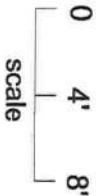
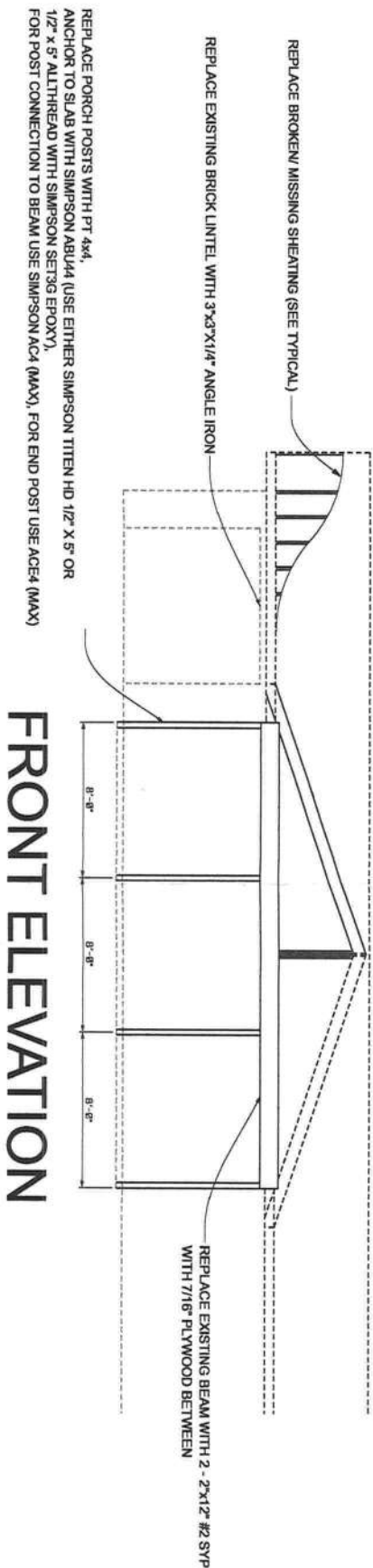
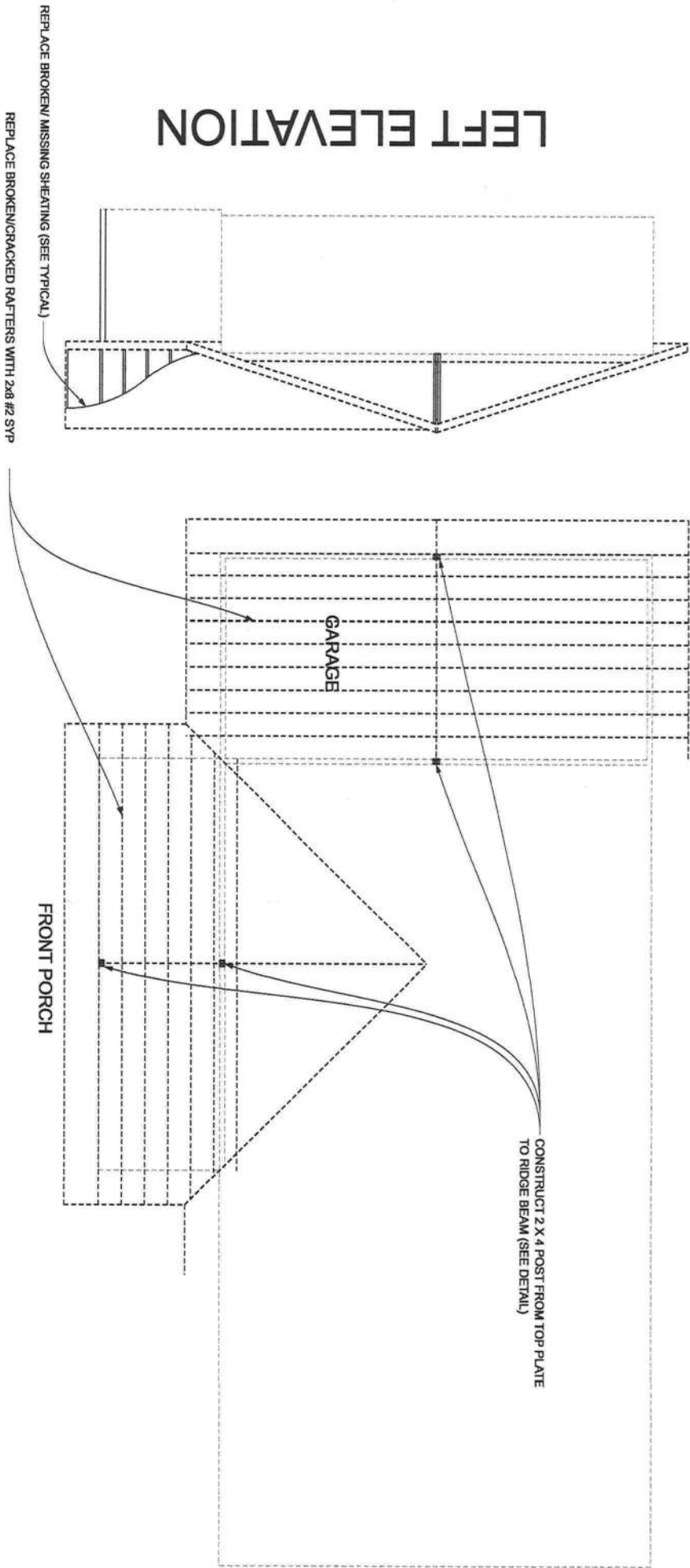
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PLAN VIEW

LEFT ELEVATION



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