

ROOF VENTILATION REQ'MTS. 2902 ATTIC SQ. FT. / 300 = 9,68

PROVIDED ON PLAN 109 L.F. RIDGE VENT = 20.43 144 L.F. SOFFIT VENT = 9.0TOTAL = 29.43 S.F. FREE NET AREA

REAR ELEVATION

RAKE

HORIZ, SIDING

C.R.V.

∃HORIZ. SIDING≡

**ELEVATION** 

-SCALE: 1/8" = 1'-0"

C.R.V.

12/12 ROOF

**OPEN** 

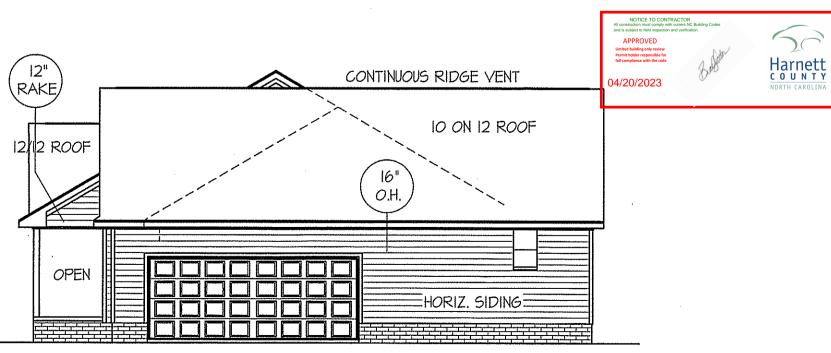
CONTINUOUS RIDGE VENT

=HORIZ, SIDING=

10 ON 12 ROOF

( O.H.

4 ON 2 ROO



**RIGHT ELEVATION** -SCALE: 1/8" = 1'-0"

HORIZ. SIDING

SHEET NO.

DATE:

) 892-5680 HOMES

(910) 89 © 2023,

(J)

a

0

**(1)** 

<u>Q</u>

PLAN

AMIL

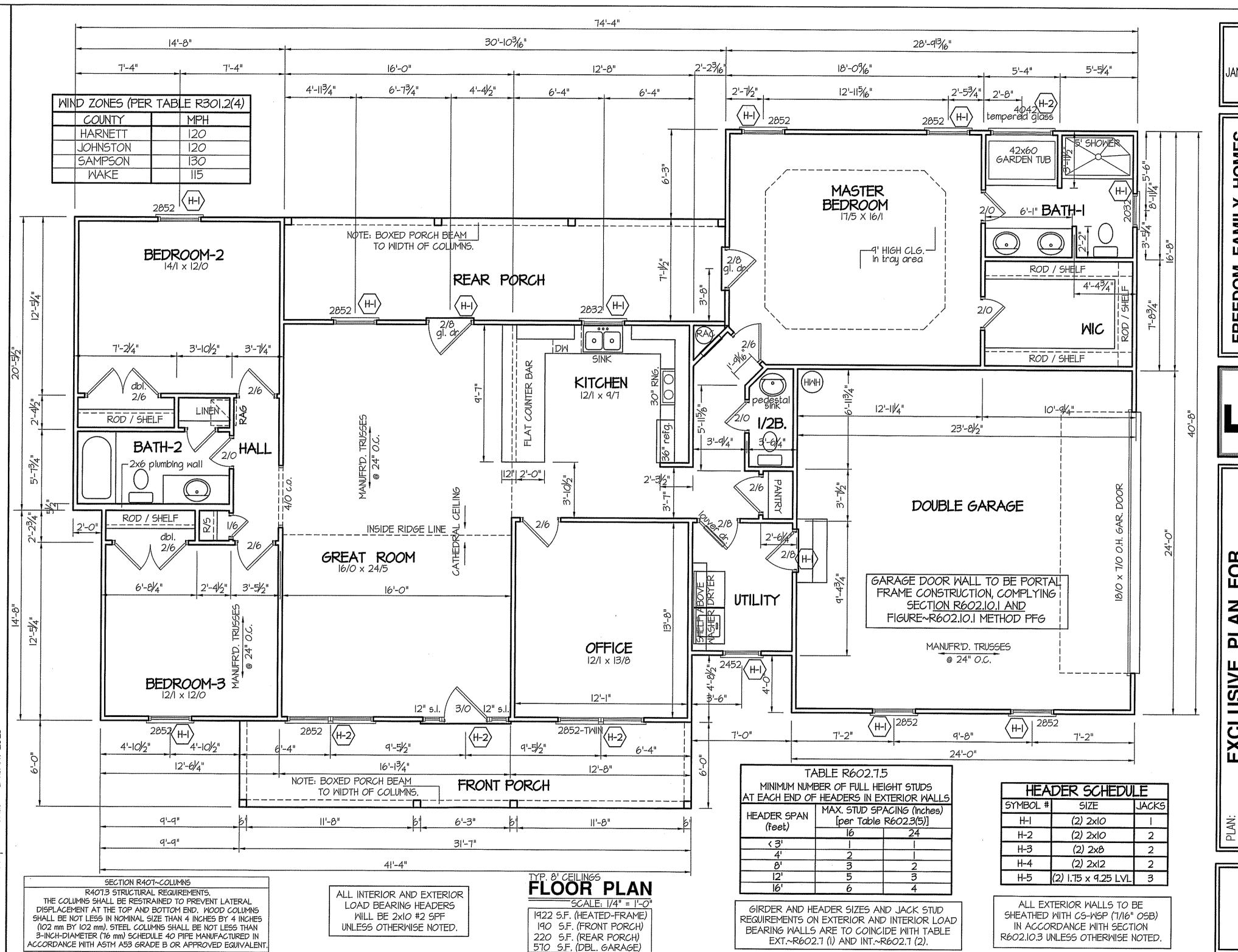
EXCLUSI FREEDOM

ö

ALL EXTERIOR WALLS TO BE

SHEATHED WITH CS-WSP (7/16" OSB)

IN ACCORDANCE WITH SECTION R602.10.3 UNLESS OTHERWISE NOTED.



DATE:

JANUARY 19, 2023

-5680

FREEDOM FAMILY HOMES

P.O. BOX 608

DUNN, N.C. - 28335

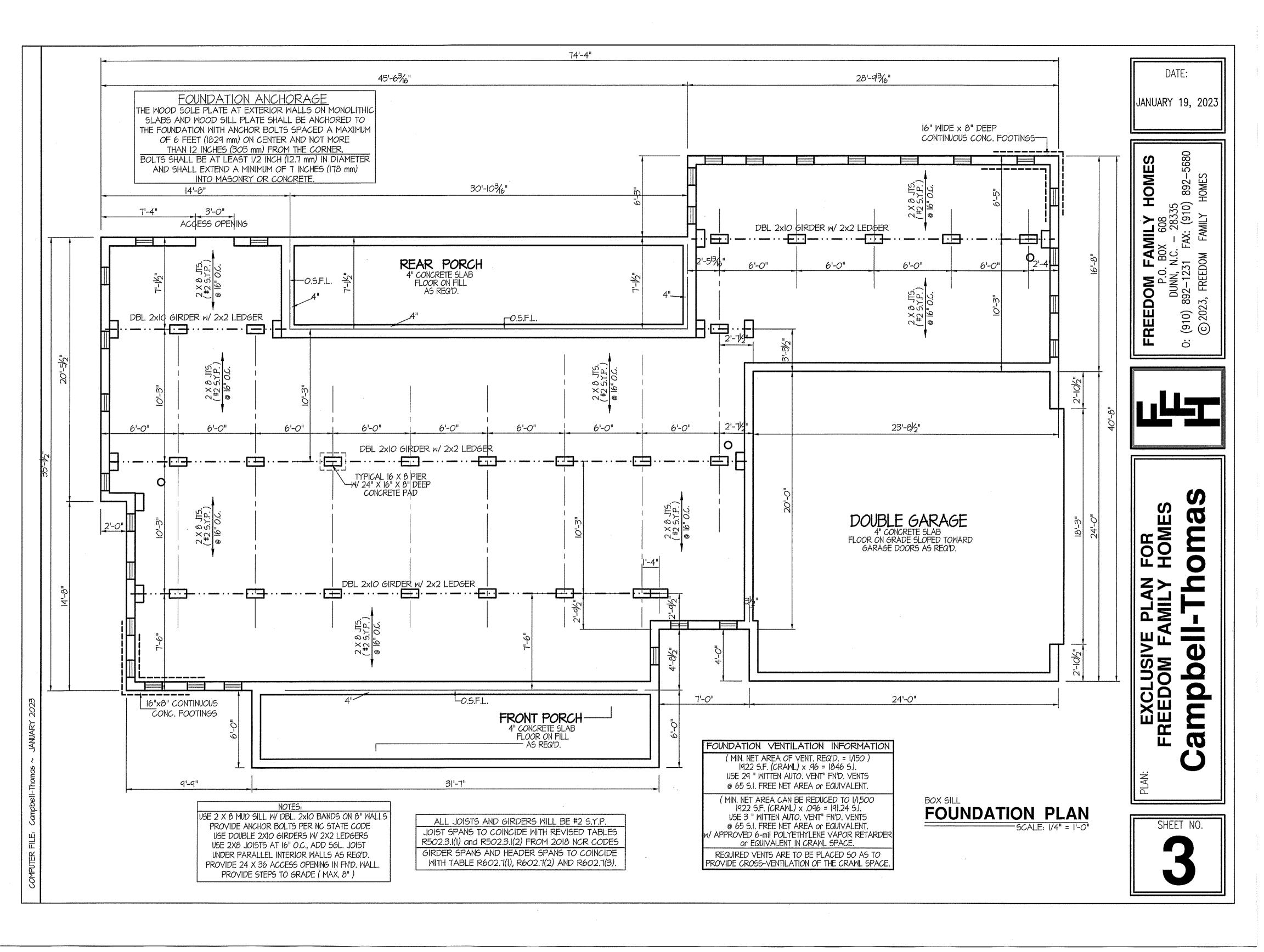
): (910) 892-1231 FAX: (910) 892-5680

© 2023, FREEDOM FAMILY HOMES

EXCLUSIVE PLAN FOR FREEDOM FAMILY HOMES

Campbell-Thomas

SHEET NO.



TOTAL HEAT GAIN = 30,944 B.T.U.H. TOTAL HEAT LOSS = 48,915 B.T.U.H.

NOTE:

HVAC CONTRACTOR TO PROVIDE OWNERS AND BUILDERS UNIT INFORMATION, BTUH REQUIREMENTS, AND DUCT LAYOUTS BEFORE CONSTRUCTION BEGINS.

1922 S.F. (HEATED-FRAME) 190 S.F. (FRONT PORCH) 220 S.F. (REAR PORCH) 570 S.F. (DBL. GARAGE)

	ELECTRICAL LEGEN								
PROVIDE BURGLAR/SMOKE AND FIRE DETECTORS AS PER MANUFACTURER'S SPECIFICATIONS. PROVIDE CENTRAL VACCUUM SYSTEM AS PER MANU— FACTURER'S SPECIFICATIONS. ALL FANS ARE TO BE CONTROLLED BY VAR/SPEED AND DIRECTIONAL SWITCHES									
→ SURF. MOUNTED LIGHT	⇒ TYPICAL WALL RECEP.								
O RECESSED LIGHT	⇒ TOP 1/2 HOT W/SWITCH	✓ 3-WAY SWITCH							
→ EYEBALL LIGHT	倒 CEILING RECEPTACLE	₩ 4-WAY SWITCH							
+ FAN/LIGHT COMB.	• FLOOR RECEPTACLE	₩ DIMMER SWITCH							
- FLUORESCENT TUBE	⇒ WATERPROOF RECEP.	트 ELEC. PANEL BOX							
FLUOR. LIGHT FIXTURE	-95 GROUND FAULT	T.V. CABLE RECEP.							
© EXHAUST FAN	DISPOSAL UNIT								
🐼 CL'G. FAN	⇒§ 220 VOLT RECEPTACLE	© COMPUTER JACK							
♦ FLOOD LIGHT									

DATE:

JANUARY 19, 2023

-5680

FREEDOM FAMILY HOMES
P.0. BOX 608
DUNN, N.C. - 28335
(910) 892-1231 FAX: (910) 892-5680
© 2023, FREEDOM FAMILY HOMES

EXCLUSIVE PLAN FOR FREEDOM FAMILY HOMES

Campbell-Thomas

SHEET NO.

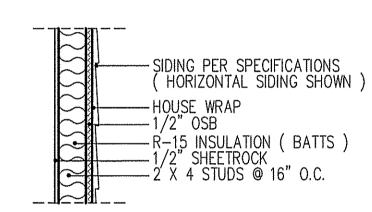
4

DIMENSIONS IN [ ] ARE MM

SPECIFICATIONS										
Model	He	lght	Front	: Vidth	Back	Vidth	De	pth	Glass BTU I	
6000-TR	Actual	Framing	Actual	Framing	Actual	Framing	Actual	Framing	Size	вто тприс
Inches	38	38-1/2	41	42	28-1/2	42	21-1/2	22		

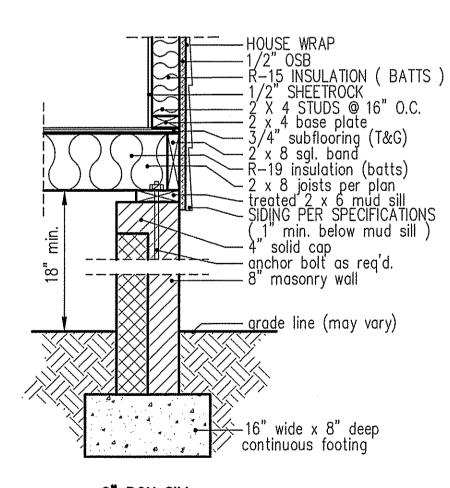
Reference dimensions only. We recommend measuring individual units at installation

JANUARY 2023

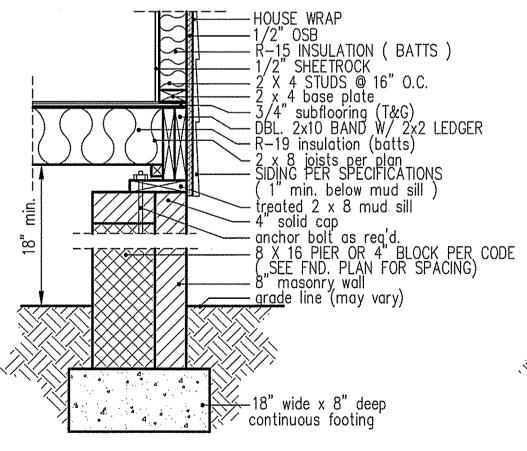


WALL W/siding

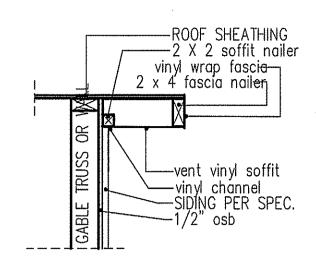
intermediate wall details



8" BOX SILL FOUNDATION WALL



PIER and CURTAIN FOUNDATION WALL

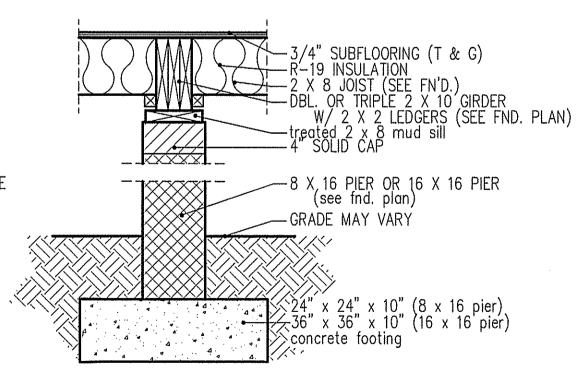


RAKE W/SIDING

NOTE: OVERHANG DISTANCE NOTED ON ELEVATION SHEET IS ALWAYS MEASURED FROM FRAME LINE

TABLE R602.7.5  MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS								
HEADER SPAN (feet)	MAX. STUD SP. [per Table 16							
⟨ 3'	Ï	i i						
4'	2							
8'	3	2 3 4						
12'	5							
16'	6							

GIRDER AND HEADER SIZES AND JACK STUD REQUIREMENTS ON EXTERIOR AND INTERIOR LOAD BEARING WALLS ARE TO COINCIDE WITH TABLE EXT.~R602.7 (1) AND INT.~R602.7 (2).



PIER and GIRDER DETAIL

DATE:

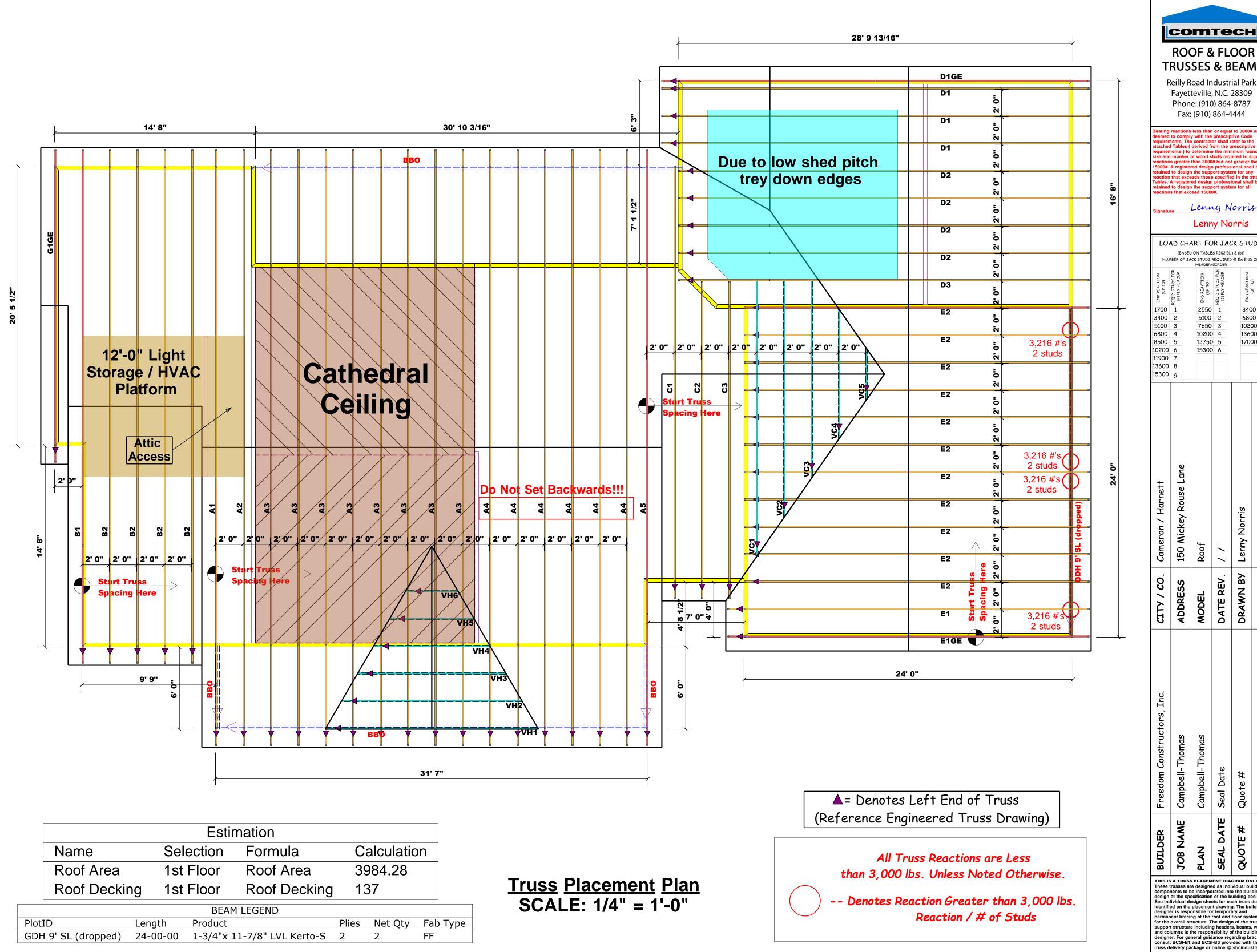
JANUARY 19, 2023

892-5680 HOMES HOMES – 28335 AX: (910) FAMILY HI **FAMILY** FAX: **FREEDOM** 

P.O. BOX DUNN, N.C. 892-1231 F © 2023, FREEDOM (016) ö

FOR HOMES oma PLAN (1) EXCLUSI FREEDOM **0** ampl

SHEET NO.



соттесн **ROOF & FLOOR** 

## **TRUSSES & BEAMS**

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Lenny Norris

LOAD CHART FOR JACK STUDS

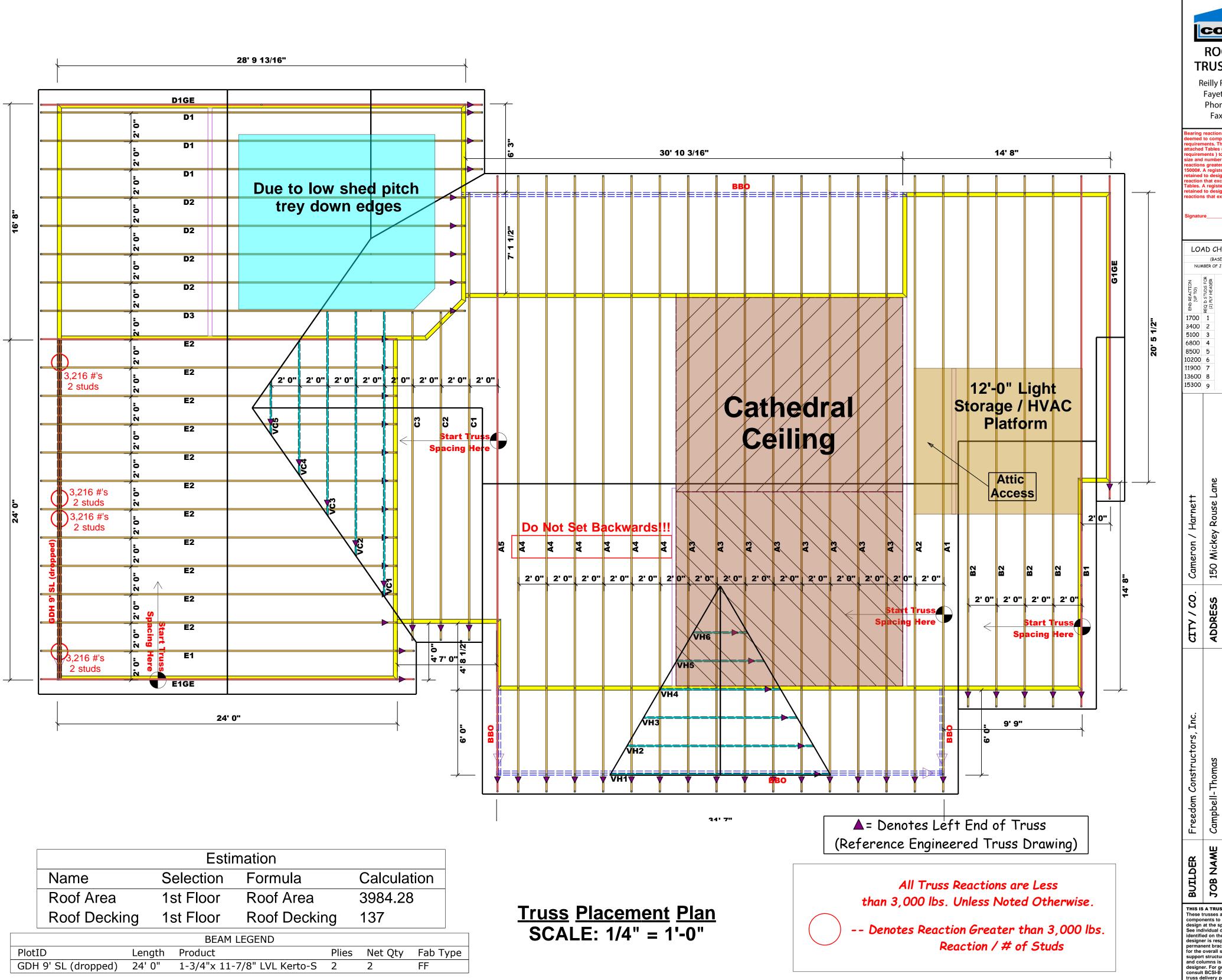
(BASED ON TABLES R502.5(1) & (b))

Lenny Norris DRAWN BY

Quote# SEAL DATE QUOTE;

J0223-0831

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building design at the specification of the building designer See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.con THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.



COMTECH **ROOF & FLOOR** 

# **TRUSSES & BEAMS**

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Lenny Norris

Lenny Norris

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b))

ors, Inc.	CITY / CO.	CITY / CO.   Cameron / Harnett
	ADDRESS	150 Mickey Rouse Lane
	MODEL	Roof
	DATE REV. //	//
	DRAWN BY	DRAWN BY Lenny Norris
	SALES REP.	SALES REP. Lenny Norris

SEAL DATE QUOTE; THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.con

J0223-0831

Quote#



Client: **FREEDOM** 

Project: Address: Date: 2/22/2023

Input by: Lenny Norris Job Name: CAMPELL

Project #:

1.750" X 11.875" 2-Ply - PASSED GDH 9'SL Kerto-S LVL

Application:

Design Method:

**Building Code:** 

Load Sharing:

Deck:

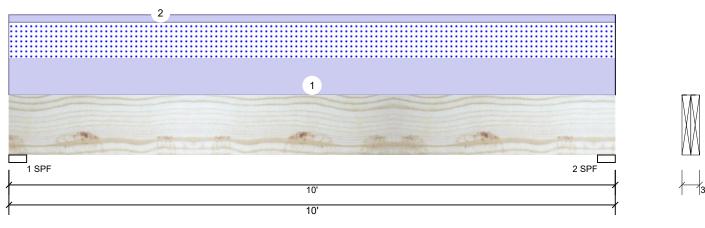
ASD

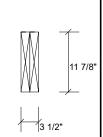
No

**IBC/IRC 2015** 

Not Checked

Level: Level





Page 1 of 1

#### Member Information

Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 240 Importance: Normal - II Temperature: Temp <= 100°F

Reactions UNPATTERNED Ib (Uplift) Floor

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1781	1435	0	0
2	Vertical	0	1781	1435	0	0

## **Bearings**

Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	62%	1781 / 1435	3216	L	D+S
2 - SPF	3.500"	Vert	62%	1781 / 1435	3216	L	D+S

### **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7320 ft-lb	5'	22897 ft-lb	0.320 (32%)	D+S	L
Unbraced	7320 ft-lb	5'	9721 ft-lb	0.753 (75%)	D+S	L
Shear	2401 lb	1'3 3/8"	10197 lb	0.235 (24%)	D+S	L
LL Defl inch	0.064 (L/1793)	5'	0.239 (L/480)	0.268 (27%)	S	L
TL Defl inch	0.143 (L/800)	5'	0.477 (L/240)	0.300 (30%)	D+S	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	287 PLF	0 PLF	287 PLF	0 PLF	0 PLF	E TRUSSES
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	DEAD WALL
	Self Weight				9 PLF					

### Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

LVL beams must not be out or drilled
Refer to manufacturer's product information requirements, multi-ply fastening details, beam strength values, and code approvals
Damaged Beams must not be used

Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



