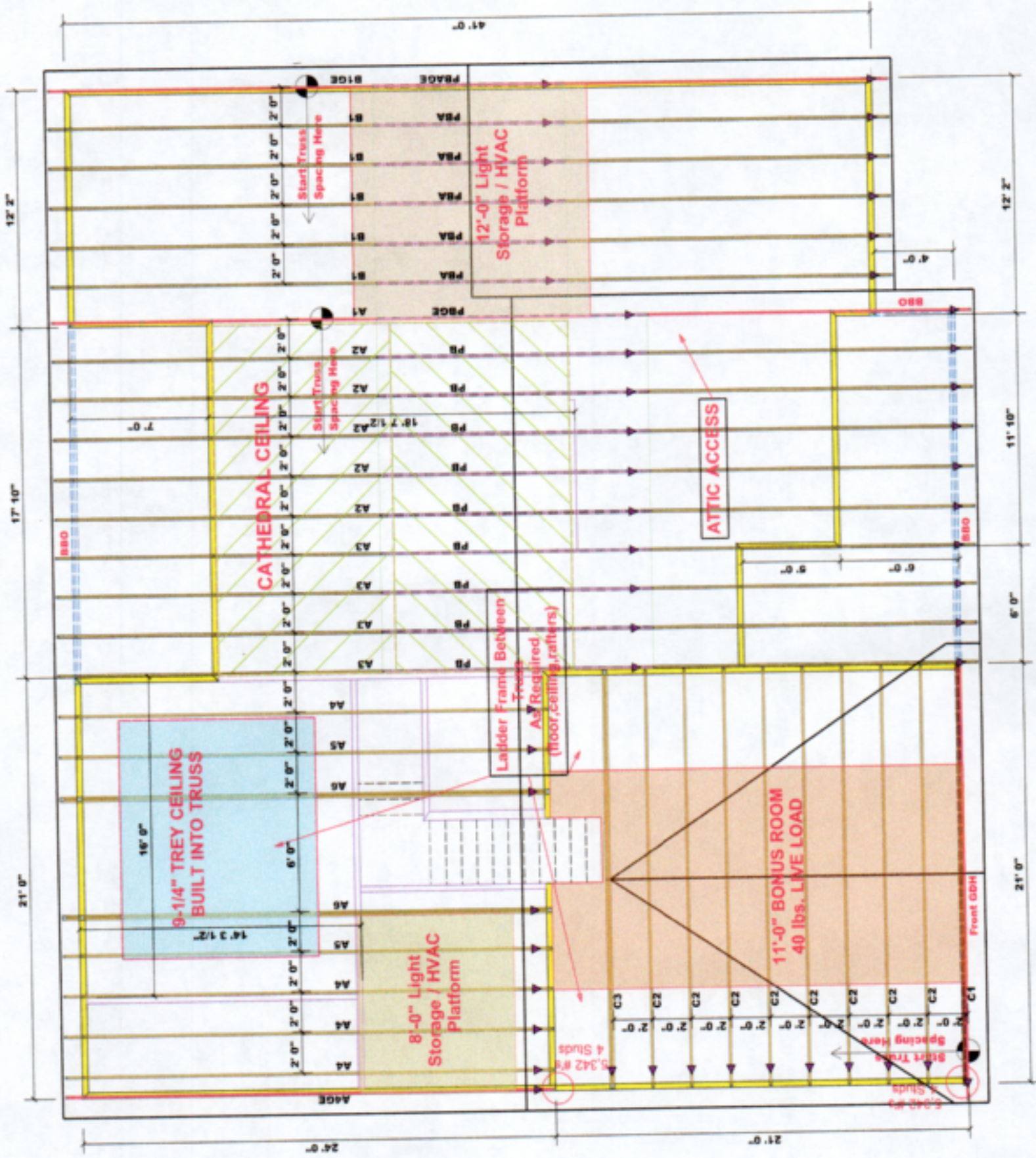


LOAD CHART FOR JACK STUDS
 SHOWS THE MAXIMUM ALLOWABLE LOADS FOR JACK STUDS OF VARIOUS SIZES AND SPACINGS.
 THE LOADS ARE BASED ON A 4' X 8' STUD SPACING AND A 12' X 12' STUD AREA.
 THE LOADS ARE BASED ON A 12' X 12' STUD AREA.
 THE LOADS ARE BASED ON A 12' X 12' STUD AREA.

SPACING	2x4	2x6	2x8	2x10	2x12
12" O.C.	1000	1500	2000	2500	3000
16" O.C.	750	1125	1500	1875	2250
24" O.C.	500	750	1000	1250	1500

CITY / CO.	Lillington / Harnett
ADDRESS	1 Dry Creek Road
MODEL	ROOF
DATE REV.	/ /
DRAWN BY	Lenny Norris
SALES REP.	Lenny Norris

BUILER	Southern Touch Homes
JOB NAME	1 Dry Creek Road
PLAN	Sinclair
SEAL DATE	Seal Date
QUOTE #	Quote #
JOB #	70820-3947



▲ = Denotes Left End of Truss
 (Reference Engineered Truss Drawing)

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.
 --- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

Truss Placement Plan
SCALE: 1/4" = 1'-0"

Product	Length	Product	Ply	Net Qty
Front GDH	22' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2
BBO	20' 0"	1 3/4" x 9 1/4" Generic Material	2	4
BBO	6' 0"	1 3/4" x 9 1/4" Generic Material	2	2

Name	Selection	Formula	Calculation
Roof Area	1st Floor	Roof Area	2987.41
Roof Decking	1st Floor	Roof Decking	103 sheets

THIS IS A TRUSS PLACEMENT DRAWING ONLY. THESE TRUSSES ARE DESIGNED AS STANDARD BUILDING TRUSSES AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE. THE DESIGNER IS NOT RESPONSIBLE FOR THE PROPER INSTALLATION OF THE TRUSSES. THE USER SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE TRUSSES. THE USER SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE TRUSSES. THE USER SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE TRUSSES.

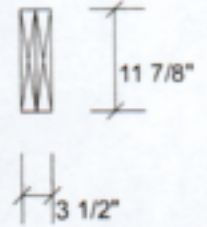
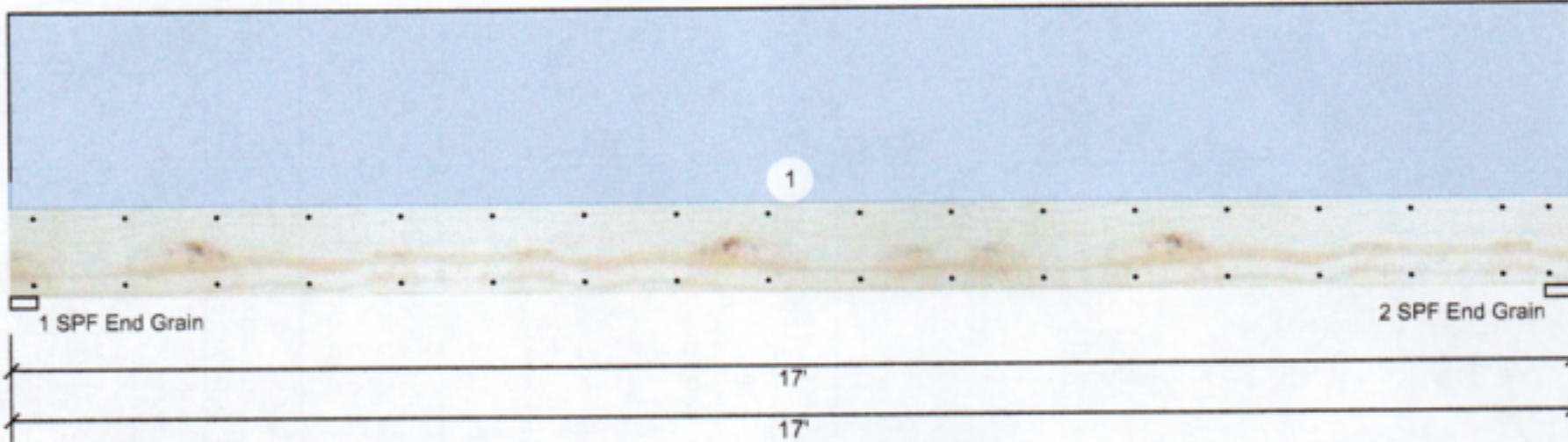


Client: SOUTHERN TOUCH
 Project:
 Address:

Date: 9/17/2020
 Input by: Lenny Norris
 Job Name: SINCLAIR
 Project #:

Front GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1779	0	0	0
2	0	1779	0	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	17%	1779 / 0	1779	Uniform	D
2 - SPF End Grain	3.500"	17%	1779 / 0	1779	Uniform	D

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment Unbraced	7157 ft-lb	8'6"	17919 ft-lb	0.399 (40%)	D	Uniform
Shear	1524 lb	1'2 5/8"	7980 lb	0.191 (19%)	D	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0.000 (0%)		
TL Defl inch	0.381 (L/521)	8'6 1/16"	0.551 (L/360)	0.690 (69%)	D	Uniform

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 13'7 7/8" o.c.
- 6 Bottom braced at 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			Top	200 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Gable End Wall
	Self Weight				9 PLF					

Notes

Calculated Structural 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.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or preservative

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. 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 2/26/2023

Manufacturer Info

Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us
 ICC-ES: ESR-3633

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

