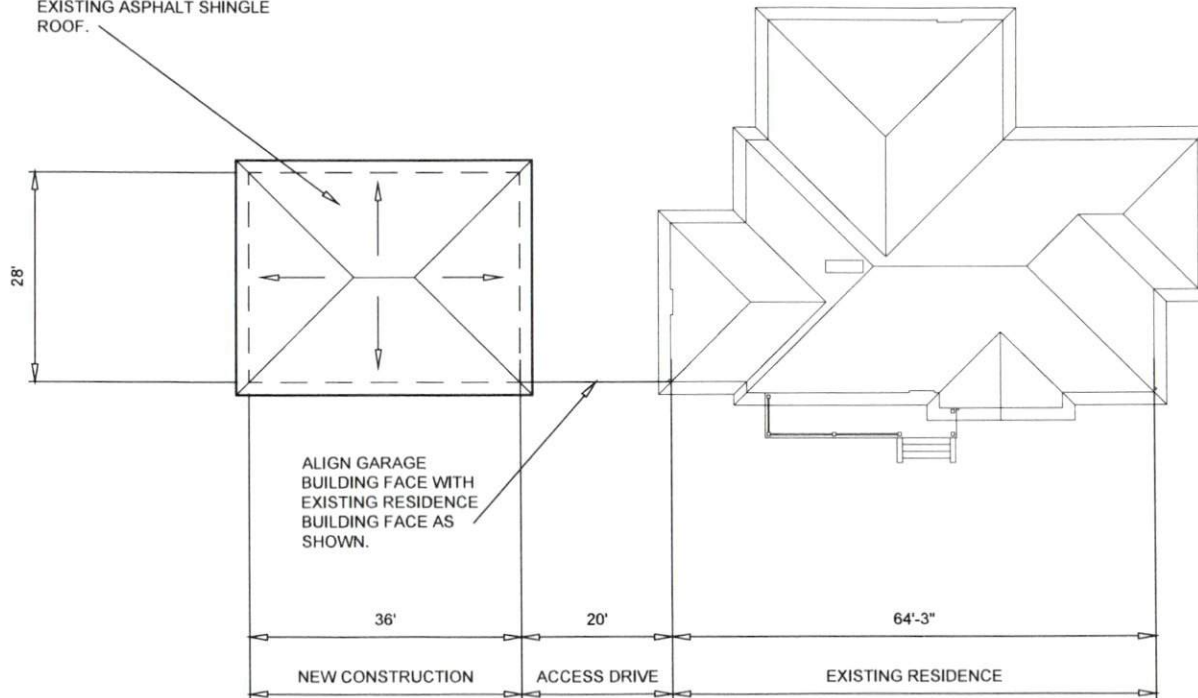




SEE ALL NOTES

INSTALL ASPHALT SHINGLES OVER ROOF SYNTHETIC UNDERLAYMENT OVER 5/8" CDX PLYWOOD SHEATHING. THE CONTRACTOR SHALL INSTALL UNDERLAYMENT WITH PLASTIC CAP NAILS. MATCH THE EXISTING ASPHALT SHINGLE ROOF.



**SITE PLAN**

SCALE: 1' = 300'

DESIGN DEVELOPMENT- NOT FOR CONSTRUCTION

logo

11/26/2022	LDN	SITE PLAN
date	drawn	drawing title

LINE on DESIGN 406 CAPTAIN HARBOUR DRIVE SANFORD, NC 28332	LEE D. NELSON, RA llrondesign19@gmail.com 919-498-6545
designer of record	contact

PASTOR WAYNE & MRS LISA O'QUINN 7515 OLD US 421 LILLINGTON, NC 27546	CONSTRUCT THREE CAR GARAGE
owner	project title



north arrow

**C-1**

# of #

drawing sheet

DESIGN  
DEVELOPMENT-  
NOT FOR  
CONSTRUCTION

logo

11/26/2022  
date

LDN  
drawn

FLOOR PLAN  
drawing title

LINE on DESIGN  
406 CAPTAIN HARBOUR DRIVE  
SANFORD, NC 28332

designer of  
record

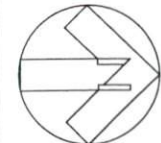
LEE D. NELSON, RA  
linrodesign19@gmail.com  
919-498-6545

contact

PASTOR WAYNE & MRS LISA  
O'QUINN  
7515 OLD US 421  
LILLINGTON, NC 27546

owner

CONSTRUCT THREE CAR  
GARAGE  
project title



north arrow

A-1

# of #

drawing sheet

2" x 4" WOOD STUDS  
SPACED 16" O.C.

4" CONCRETE  
SLAB WITH  
WWF 6 x 6-W1.4

2" x 4" WOOD  
STUDS  
SPACED  
16" O.C.

4" CONCRETE  
SLAB

2" x 4" WOOD STUDS  
SPACED 16" O.C.

LINE OF GARAGE  
DOOR OVERHEAD

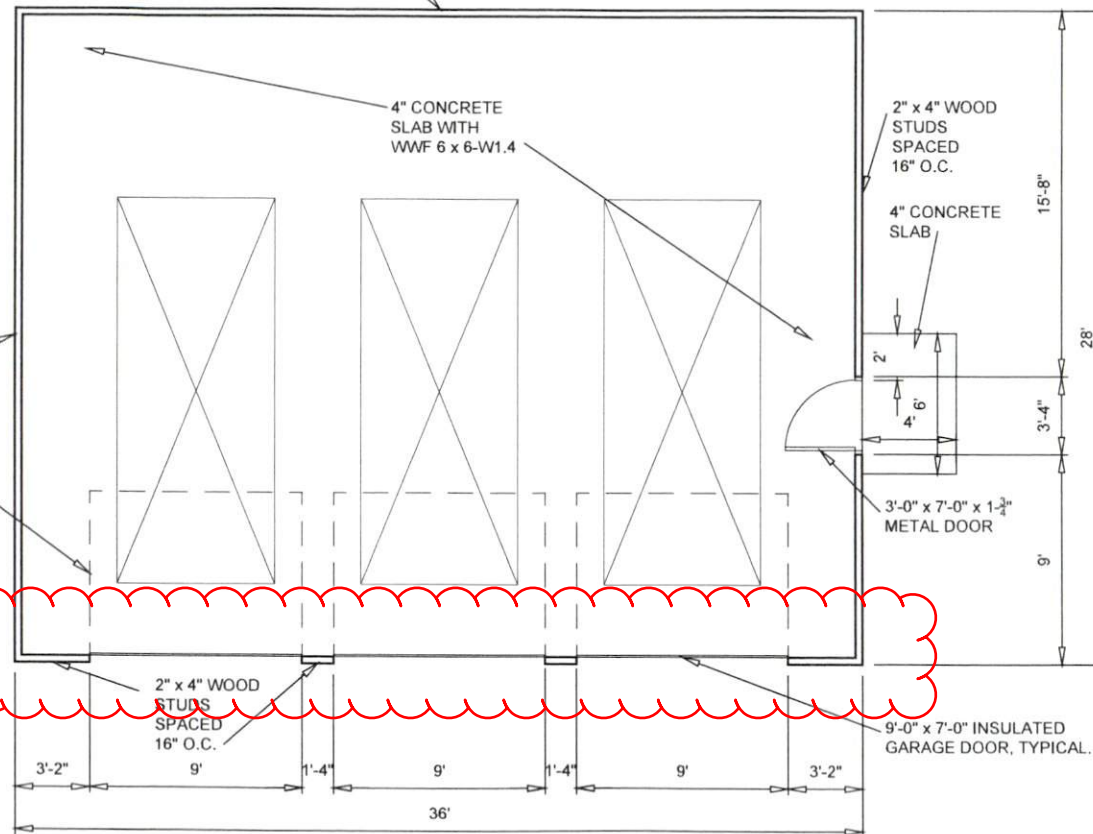
2" x 4" WOOD  
STUDS  
SPACED  
16" O.C.

9'-0" x 7'-0" INSULATED  
GARAGE DOOR, TYPICAL.

CS-PF required. See  
foundation plan

# FLOOR PLAN - THREE CAR GARAGE

SCALE:  $\frac{1}{8}" = 1'-0"$



DESIGN  
DEVELOPMENT -  
NOT FOR  
CONSTRUCTION

logo

11/26/2022

date

LDN

drawn

ELEVATIONS

drawing title

LINE on DESIGN  
406 CAPTAIN HARBOUR DRIVE  
SANFORD, NC 28332

designer of  
record

LEE D. NELSON, RA  
linrondesign19@gmail.com  
919-498-6545

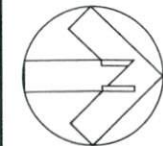
contact

PASTOR WAYNE & MRS LISA  
O'QUINN  
7515 OLD US 421  
LILLINGTON, NC 27546

owner

CONSTRUCT THREE CAR  
GARAGE

project title



north arrow

**A-3**

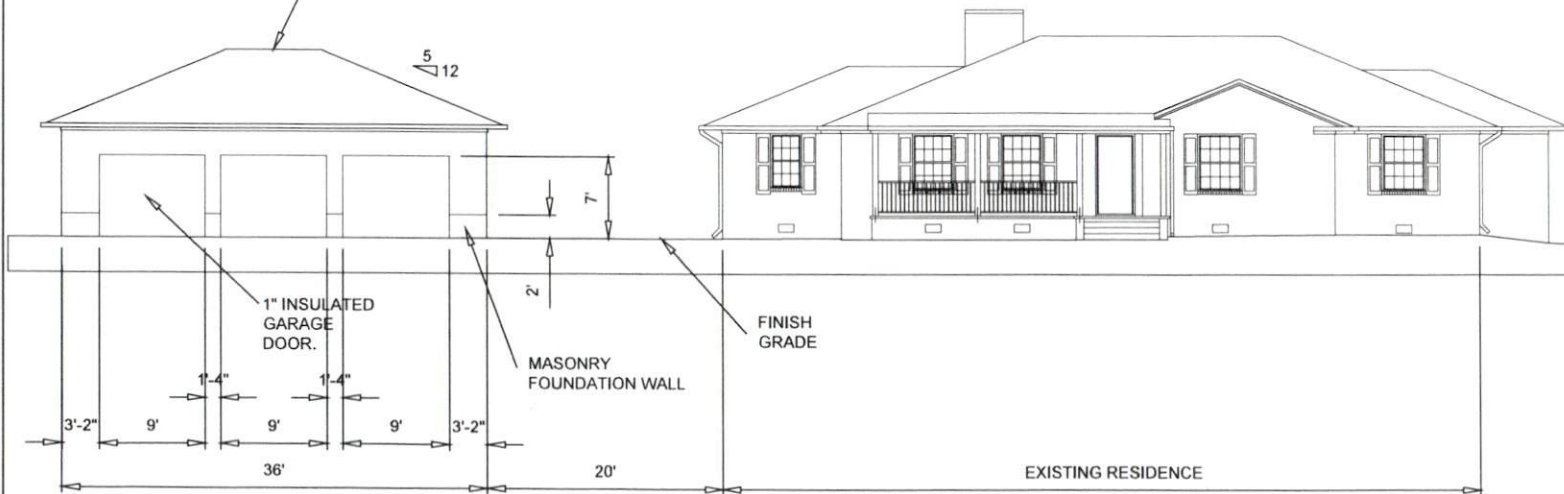
# of #

drawing sheet

**Notes:**

1. What is the selected exterior material that needs to be indicated on the garage elevation?
2. What type of foundation system is desired?
  - (a) slab on grade.
  - (b) foundation wall, 2' in height to match new porch height with a concrete slab placed on grade.
3. Indicated roof overhang is 1'-8", verify dimension?
4. The structural beams (LVL) over the garage doors need to be properly sized, based on applied loads. I can get a structural engineer to size the beam for you. Let me know, if you agree. There may be a charge for this service.
5. Correct direction of the north arrow.

INSTALL ASPHALT SHINGLES  
OVER ROOF SYNTHETIC  
UNDERLAYMENT OVER 1/2" CDX  
PLYWOOD SHEATHING. THE  
CONTRACTOR SHALL INSTALL  
UNDERLAYMENT WITH PLASTIC  
CAP NAILS. MATCH THE  
EXISTING ASPHALT SHINGLE  
ROOF. ROOF



**ELEVATIONS**

SCALE: 1/16" = 1'- 0"

DESIGN  
DEVELOPMENT -  
NOT FOR  
CONSTRUCTION

logo

11/26/2022

date

LDN

drawn

ELEVATION

drawing title

LINE ON DESIGN  
406 CAPTAIN HARBOUR DRIVE  
SANFORD, NC 28332

designer of  
record

LEE D. NELSON, RA  
litrondesign19@gmail.com  
919-498-6545

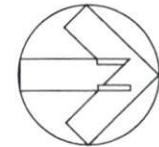
contact

PASTOR WAYNE & MRS LISA  
O'QUINN  
7515 OLD US 421  
LILLINGTON, NC 27546

owner

CONSTRUCT THREE CAR  
GARAGE

project title



north arrow

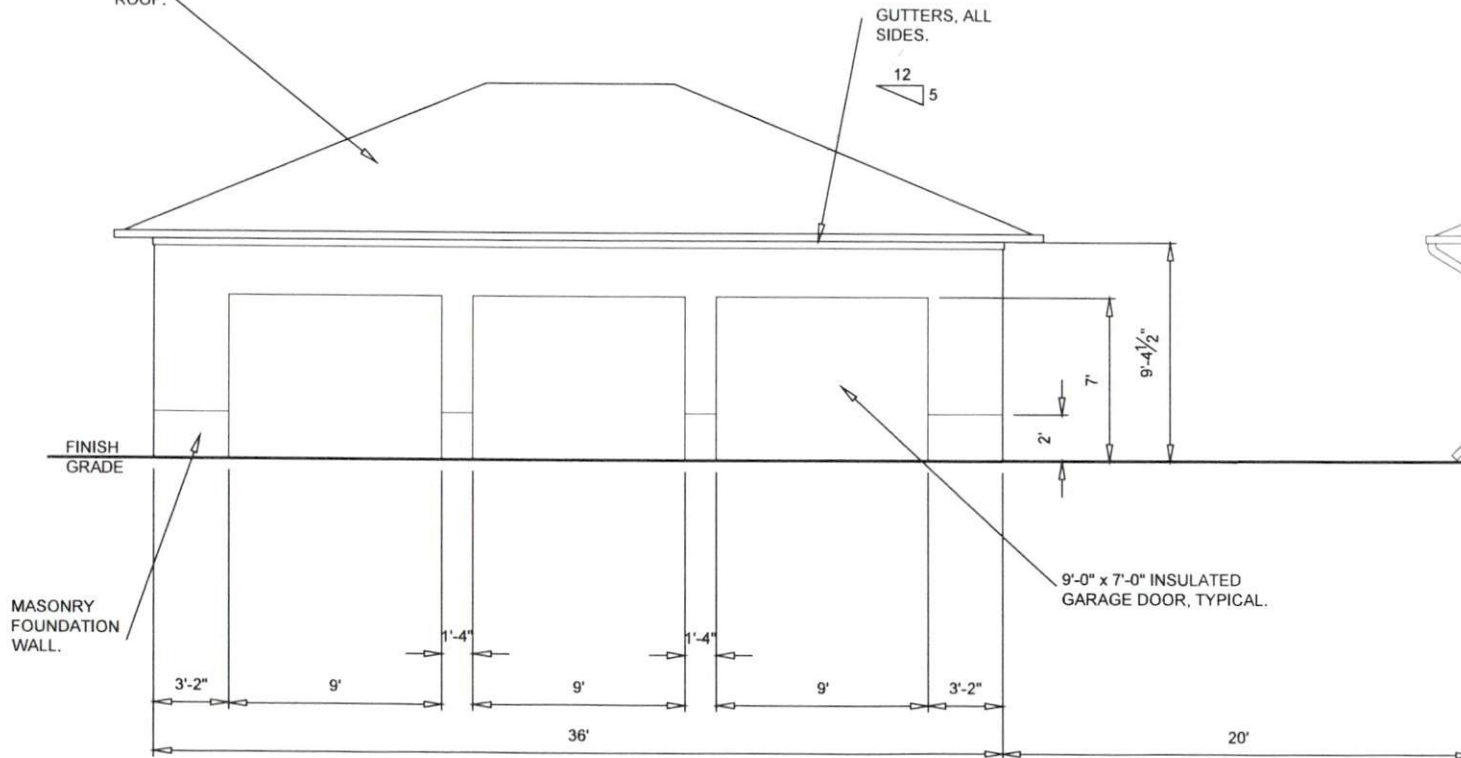
A-4

# of #

drawing sheet

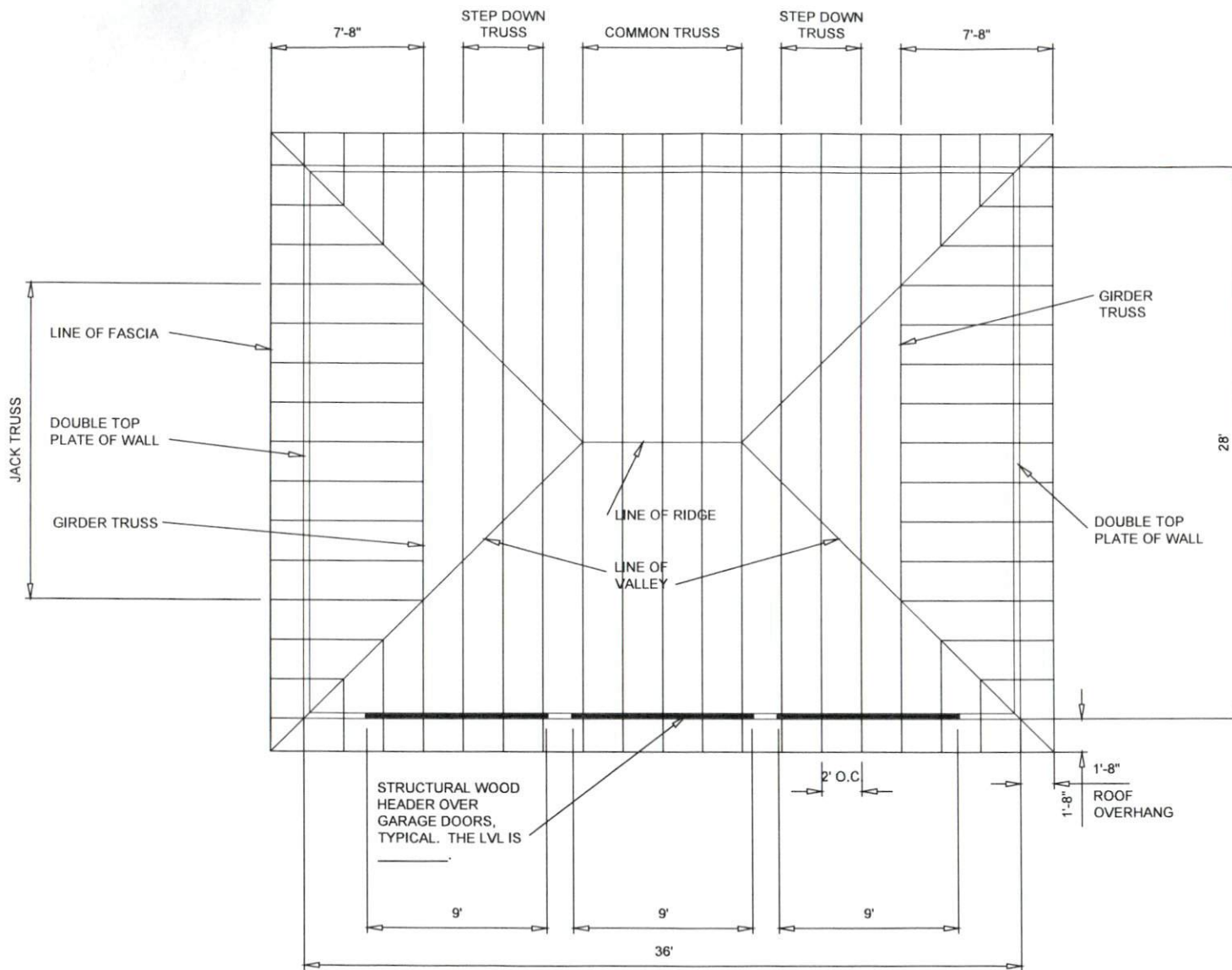
INSTALL ASPHALT SHINGLES  
OVER ROOF SYNTHETIC  
UNDERLAYMENT OVER 3/4" CDX  
PLYWOOD SHEATHING. THE  
CONTRACTOR SHALL INSTALL  
UNDERLAYMENT WITH PLASTIC  
CAP NAILS. MATCH THE  
EXISTING ASPHALT SHINGLE  
ROOF.

GUTTERS, ALL  
SIDES.



# FRONT ELEVATION - THREE CAR GARAGE

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



# ROOF FRAMING PLAN - THREE CAR GARAGE

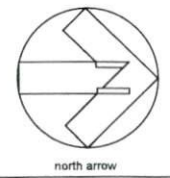
SCALE:  $\frac{1}{8}'' = 1'-0''$

DESIGN DEVELOPMENT - NOT FOR CONSTRUCTION

logo	
11/26/2022	LDN
date	drawing title
ROOF FRAMING PLAN	

LINE ON DESIGN 406 CAPTAIN HARBOUR DRIVE SANFORD, NC 28332	LEE D. NELSON, RA lirondesign19@gmail.com 919-498-6545
designer of record	contact

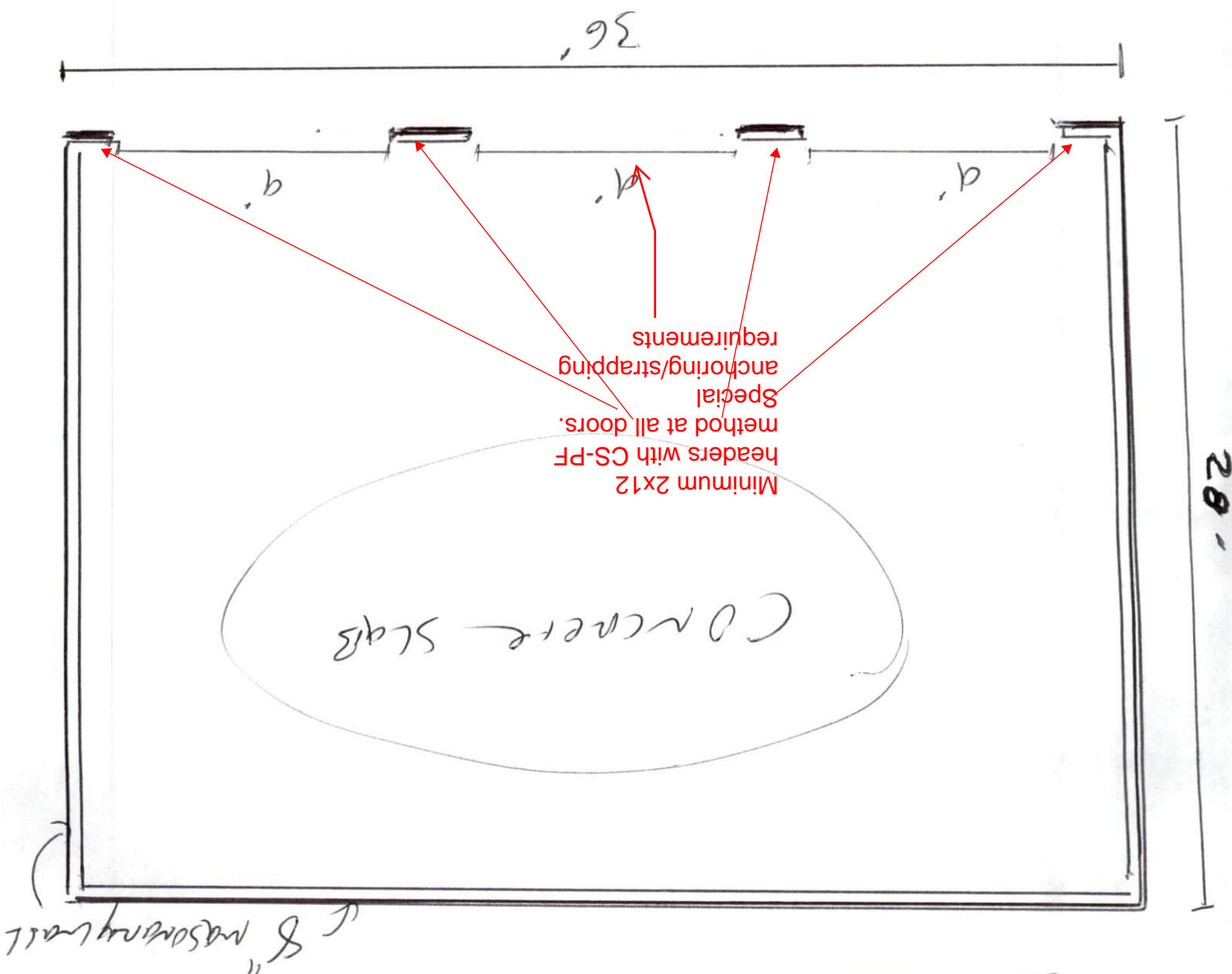
PASTOR WAYNE & MRS LISA O'QUINN 7515 OLD US 421 LILLINGTON, NC 27546	CONSTRUCT THREE CAR GARAGE
owner	project title



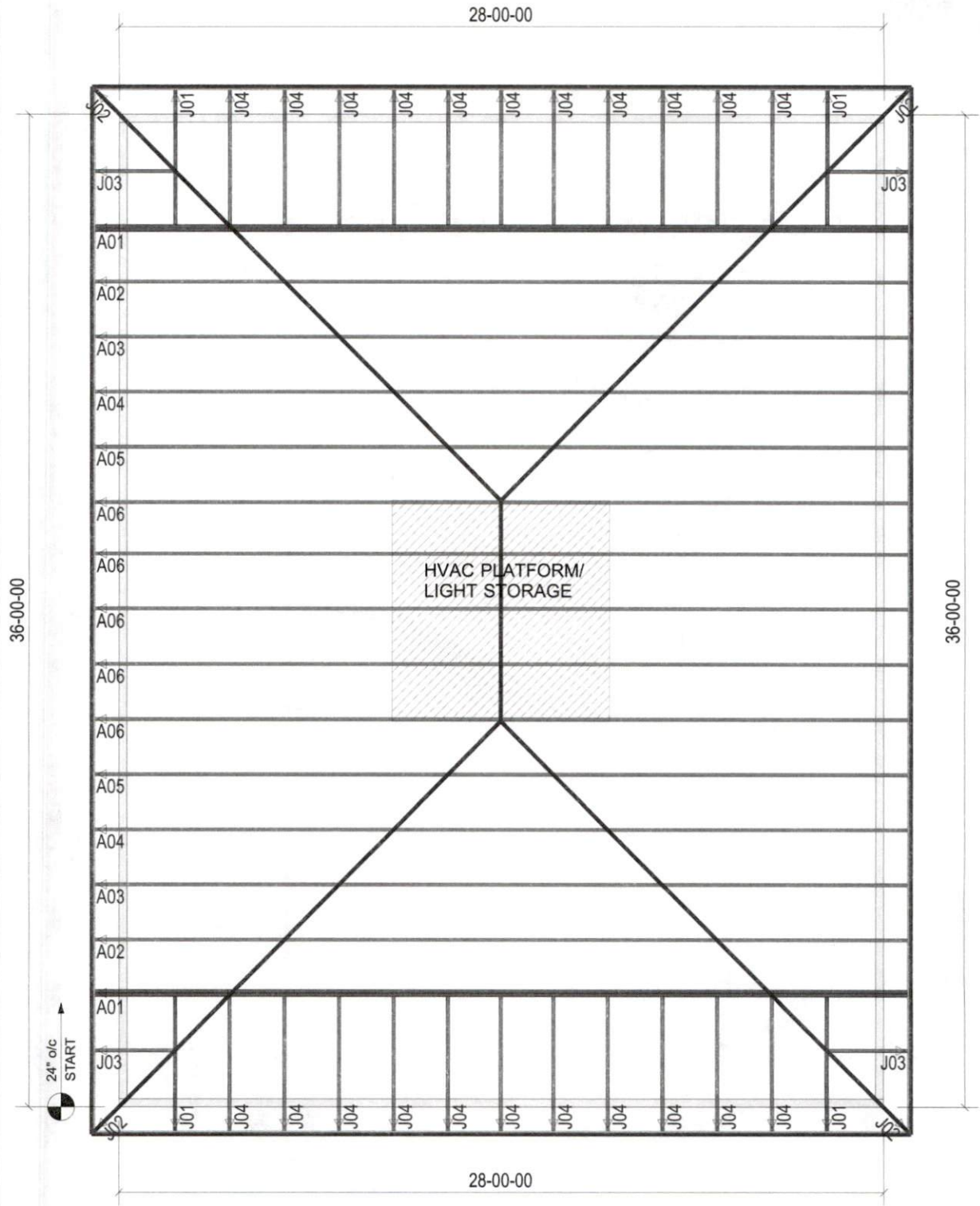
**A-5**  
# of #  
drawing sheet

Wayne OQUIN 7515 OLD US 421 L. LINGHAR

# Garage Foundation



Footings: 18" wide x 10" Deep  
Walls: 8" wide masonry  
Top 8" solid masonry  
Anchor bolts 6' o/c,  
1' from corners,  
1' from green plate seam  
18" wide x 10" deep - concrete



**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 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 "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

**SHOP DRAWING APPROVAL**

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

REVIEWED BY:

APPROVED BY:

DATE:

Job #: Q2300339

Plan: GARAGE

Customer: WANE O'QUINN

Date: 3/2/2023

Site Address: TBD

Sales Rep: RW

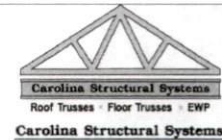
City, ST, ZIP: LILLINGTON, NC

Designer: JSP



**ROOF DATA**

Roof Area: 1274.56 SF



P.O. Box 157, Ether, NC 27247  
225 Framm Shop Rd., Star, NC 27356  
910-491-9004

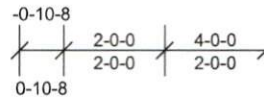
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
Wayne O'Quinn	J01	Jack-Open Girder	4	1	

Carolina Structural Systems, Star, NC 27356, Jeremy Phillips

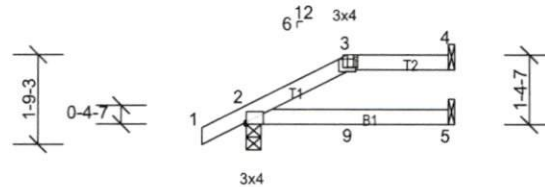
Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Thu Mar 02 08:13:08

Page: 1

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NAILED



Special

Scale = 1:43.1

Plate Offsets (X, Y): [2:Edge,0-0-8], [3:0-2-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.04	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.08	5-8	>608	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.09	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 14 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(lb/size) 2=246/0-3-8, (min. 0-1-8), 4=58/  
Mechanical, (min. 0-1-8), 5=124/  
Mechanical, (min. 0-1-8)  
Max Horiz 2=48 (LC 8)  
Max Uplift 2=31 (LC 8), 4=23 (LC 4)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=125mph (3-second gust)  
Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft;  
B=45ft; L=24ft; eave=4ft; Ke=1.00; Cat. II; Exp B;  
Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4 and 31 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-3=-60, 3-4=-60, 5-6=-20  
Concentrated Loads (lb)  
Vert: 9=-61 (B)



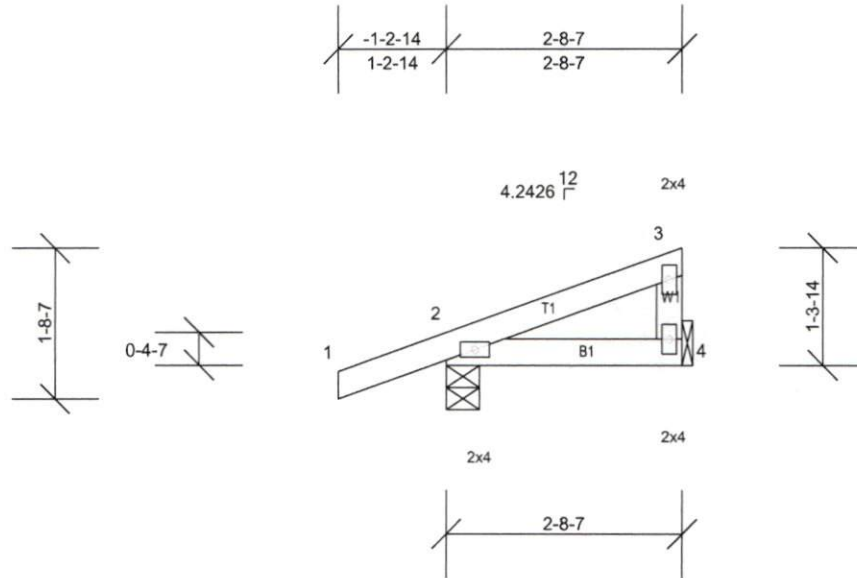
Job Wayne O'Quinn	Truss J02	Truss Type Diagonal Hip Girder	Qty 4	Ply 1	Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, Jeremy Phillips

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Scale = 1:25

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 11 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=195/0-4-9, (min. 0-1-8), 4=84/  
 Mechanical, (min. 0-1-8)  
 Max Horiz 2=38 (LC 7)  
 Max Uplift 2=-53 (LC 8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

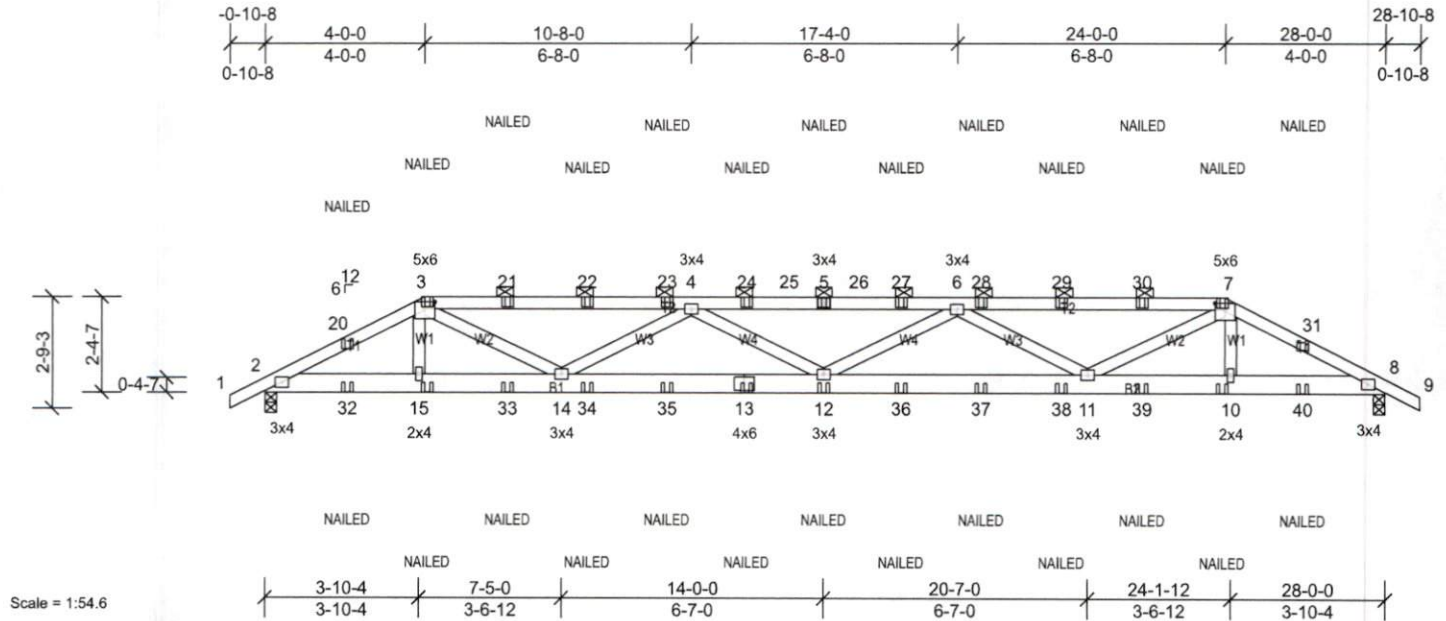
**NOTES**

- 1) Wind: ASCE 7-16; Vult=125mph (3-second gust)  
 Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft;  
 B=45ft; L=24ft; eave=4ft; Ke=1.00; Cat. II; Exp B;  
 Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job Wayne O'Quinn	Truss A01	Truss Type Hip Girder	Qty 2	Ply 2	Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, Jeremy Phillips Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Thu Mar 02 08:13:04 Page: 1  
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.18	12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.36	12	>923	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MS						Weight: 299 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (4-10-3 max.): 3-7.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=1671/0-3-8, (min. 0-1-8), 8=1671/0-3-8, (min. 0-1-8)  
Max Horiz 2=-39 (LC 6)  
Max Uplift 2=-106 (LC 8), 8=-106 (LC 8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-20=-3230/180, 3-20=-3161/188, 3-21=-4318/232, 21-22=-4318/232, 22-23=-4318/232, 4-23=-4318/232, 4-24=-5642/316, 24-25=-5642/316, 5-25=-5642/316, 5-26=-5642/316, 26-27=-5642/316, 6-27=-5642/316, 6-28=-4317/232, 28-29=-4317/232, 29-30=-4317/232, 7-30=-4317/232, 7-31=-3161/188, 8-31=-3230/180  
BOT CHORD 2-32=-124/2870, 15-32=-124/2870, 15-33=-129/2855, 14-33=-129/2855, 14-34=-363/5440, 34-35=-363/5440, 13-35=-363/5440, 12-13=-363/5440, 12-36=-364/5440, 36-37=-364/5440, 37-38=-364/5440, 11-38=-364/5440, 11-39=-131/2855, 10-39=-131/2855, 10-40=-125/2869, 8-40=-125/2869  
WEBS 3-14=-51/1711, 4-14=-1328/222, 4-12=0/379, 6-12=0/380, 6-11=-1329/222, 7-11=-51/1711

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft; B=45ft; L=28ft; eave=4ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 2 and 106 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

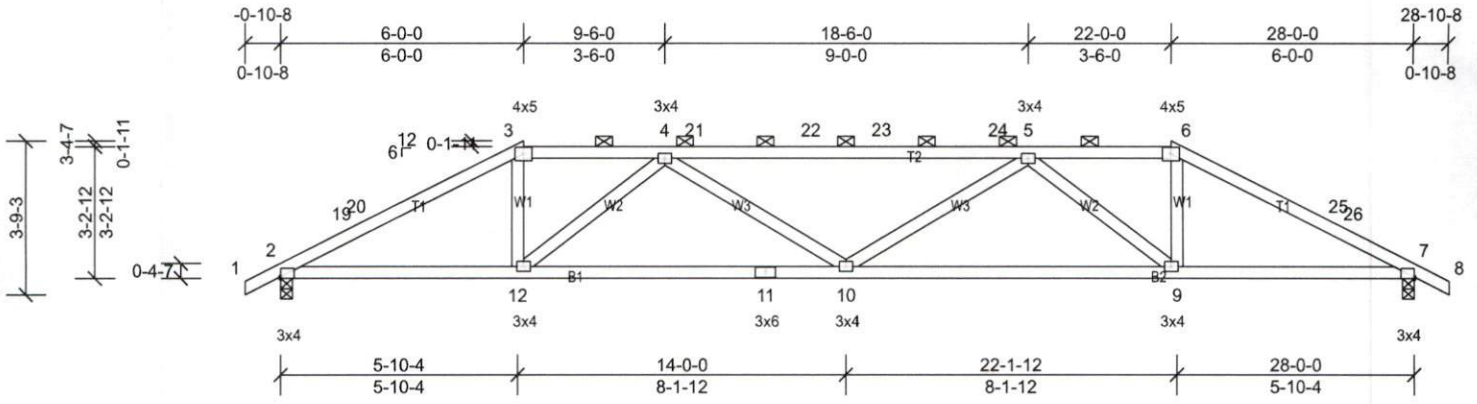
**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-3=-60, 3-7=-60, 7-9=-60, 2-8=-20  
Concentrated Loads (lb)  
Vert: 5=-42 (F), 13=-30 (F), 3=-42 (F), 12=-30 (F), 7=-42 (F), 15=-30 (F), 10=-30 (F), 21=-42 (F), 22=-42 (F), 23=-42 (F), 24=-42 (F), 27=-42 (F), 28=-42 (F), 29=-42 (F), 30=-42 (F), 32=-104 (F), 33=-30 (F), 34=-30 (F), 35=-30 (F), 36=-30 (F), 37=-30 (F), 38=-30 (F), 39=-30 (F), 40=-104 (F)

**NOTES**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
Wayne O'Quinn	A02	Hip	2	1	



Scale = 1:53.9

Plate Offsets (X, Y): [2:Edge,0-0-8], [7:Edge,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.14	10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.32	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS								
											Weight: 125 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2 \*Except\* T2:2x4 SP DSS  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-4-15 max.): 3-6.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS**

(lb/size) 2=1172/0-3-8, (min. 0-1-8),  
7=1173/0-3-8, (min. 0-1-8)  
Max Horiz 2=53 (LC 11)  
Max Uplift 2=-94 (LC 12), 7=-94 (LC 12)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-19=-2094/119, 19-20=-2051/121,  
3-20=-2020/142, 3-4=-1783/157,  
4-21=-2596/154, 21-22=-2596/154,  
22-23=-2596/154, 23-24=-2596/154,  
5-24=-2596/154, 5-6=-1783/157,  
6-25=-2020/142, 25-26=-2051/121,  
7-26=-2094/119  
BOT CHORD 2-12=-49/1816, 11-12=-140/2470,  
10-11=-140/2470, 9-10=-131/2470,  
7-9=-54/1816  
WEBS 4-12=-959/130, 4-10=0/312, 5-10=0/312,  
5-9=-959/130, 3-12=0/746, 6-9=0/746

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft; B=45ft; L=28ft; eave=4ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-0-0, Exterior(2R) 6-0-0 to 10-2-15, Interior (1) 10-2-15 to 22-0-0, Exterior (2R) 22-0-0 to 26-2-15, Interior (1) 26-2-15 to 28-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 2 and 94 lb uplift at joint 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

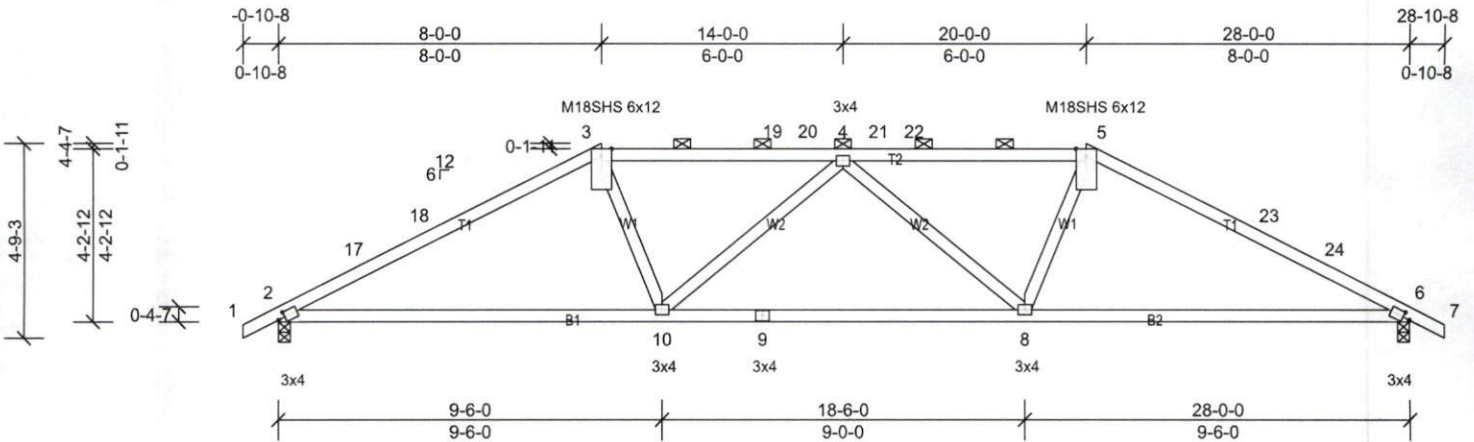
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
Wayne O'Quinn	A03	Hip	2	1	

Carolina Structural Systems, Star, NC 27356, Jeremy Phillips

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Scale = 1:54

Plate Offsets (X, Y): [2:0-2-2,0-1-8], [6:0-2-2,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.17	10-13	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.41	10-13	>822	180	M18SHS 244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.07	6	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS							Weight: 118 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied, except  
 2-0-0 oc purlins (3-11-13 max.): 3-5.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS**

(lb/size) 2=1173/0-3-8, (min. 0-1-8),  
 6=1173/0-3-8, (min. 0-1-8)  
 Max Horiz 2=-69 (LC 10)  
 Max Uplift 2=-94 (LC 12), 6=-94 (LC 12)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**TOP CHORD**

2-17=-1914/128, 17-18=-1847/141,  
 3-18=-1844/163, 3-19=-1801/162,  
 19-20=-1803/162, 4-20=-1804/162,  
 4-21=-1804/162, 21-22=-1803/162,  
 5-22=-1801/162, 5-23=-1844/163,  
 23-24=-1847/141, 6-24=-1914/128

**BOT CHORD**

2-10=-49/1656, 9-10=-86/2015,  
 8-9=-86/2015, 6-8=-55/1656

**WEBS**

3-10=0/472, 4-10=-385/85, 4-8=-385/85,  
 5-8=0/472

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=125mph (3-second gust)  
 Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft;  
 B=45ft; L=28ft; eave=4ft; Ke=1.00; Cat. II; Exp B;  
 Enclosed; MWFRS (directional) and C-C Exterior(2E)  
 -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 8-0-0, Exterior(2R)  
 8-0-0 to 12-2-15, Interior (1) 12-2-15 to 20-0-0, Exterior  
 (2R) 20-0-0 to 24-2-15, Interior (1) 24-2-15 to 28-10-8  
 zone; cantilever left and right exposed ; end vertical left  
 and right exposed;C-C for members and forces &  
 MWFRS for reactions shown; Lumber DOL=1.60 plate  
 grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom  
 chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 20.0psf  
 on the bottom chord in all areas where a rectangle  
 3-06-00 tall by 2-00-00 wide will fit between the bottom  
 chord and any other members.
- Provide mechanical connection (by others) of truss to  
 bearing plate capable of withstanding 94 lb uplift at joint  
 2 and 94 lb uplift at joint 6.
- This truss is designed in accordance with the 2018  
 International Residential Code sections R502.11.1 and  
 R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16"  
 structural wood sheathing be applied directly to the top  
 chord and 1/2" gypsum sheetrock be applied directly to  
 the bottom chord.
- Graphical purlin representation does not depict the size  
 or the orientation of the purlin along the top and/or  
 bottom chord.

**LOAD CASE(S)** Standard

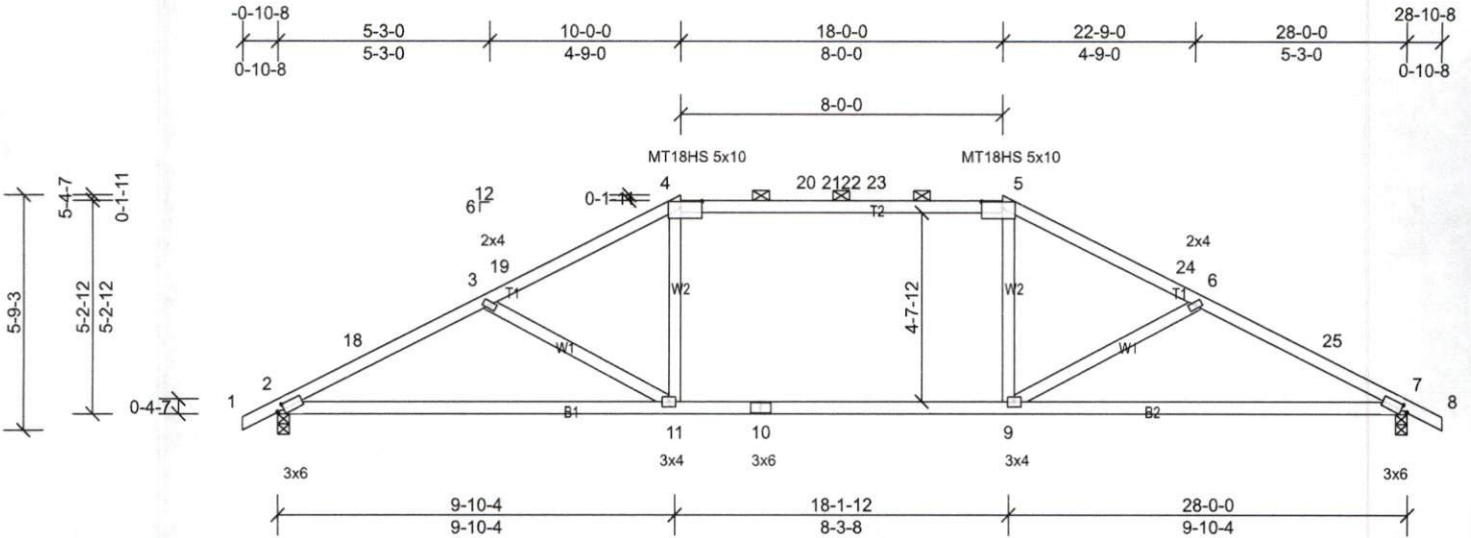
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
Wayne O'Quinn	A04	Hip	2	1	

Carolina Structural Systems, Star, NC 27356, Jeremy Phillips

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Scale = 1:54.1

Plate Offsets (X, Y): [2:0-2-0,0-1-8], [4:0-6-4,0-2-0], [5:0-6-4,0-2-0], [7:0-2-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.45	11-14	>742	240	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.61	11-14	>551	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS								
											Weight: 120 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* T2:2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied, except  
 2-0-0 oc purlins (2-2-0 max.): 4-5.  
 BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 2=1173/0-3-8, (min. 0-1-9),  
 7=1173/0-3-8, (min. 0-1-9)  
 Max Horiz 2=-85 (LC 10)  
 Max Uplift 2=-94 (LC 12), 7=-94 (LC 12)  
 Max Grav 2=1322 (LC 17), 7=1322 (LC 18)

#### FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-18=-2275/176, 3-18=-2249/198,  
 3-19=-2013/142, 4-19=-1916/165,  
 4-20=-1753/176, 20-21=-1753/176,  
 21-22=-1753/176, 22-23=-1753/176,  
 5-23=-1753/176, 5-24=-1916/165,  
 6-24=-2013/142, 6-25=-2250/198,  
 7-25=-2276/176  
 BOT CHORD 2-11=-105/2078, 10-11=-19/1771,  
 9-10=-19/1771, 7-9=-114/2015  
 WEBS 3-11=-377/110, 4-11=0/527, 5-9=0/527,  
 6-9=-377/110

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=125mph (3-second gust)  
 Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft;  
 B=45ft; L=28ft; eave=4ft; Ke=1.00; Cat. II; Exp B;  
 Enclosed; MWFRS (directional) and C-C Exterior(2E)  
 -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 10-0-0, Exterior(2R)  
 10-0-0 to 14-2-15, Interior (1) 14-2-15 to 18-0-0, Exterior  
 (2R) 18-0-0 to 22-2-15, Interior (1) 22-2-15 to 28-10-8  
 zone; cantilever left and right exposed; end vertical left  
 and right exposed; C-C for members and forces &  
 MWFRS for reactions shown; Lumber DOL=1.60 plate  
 grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 2 and 94 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

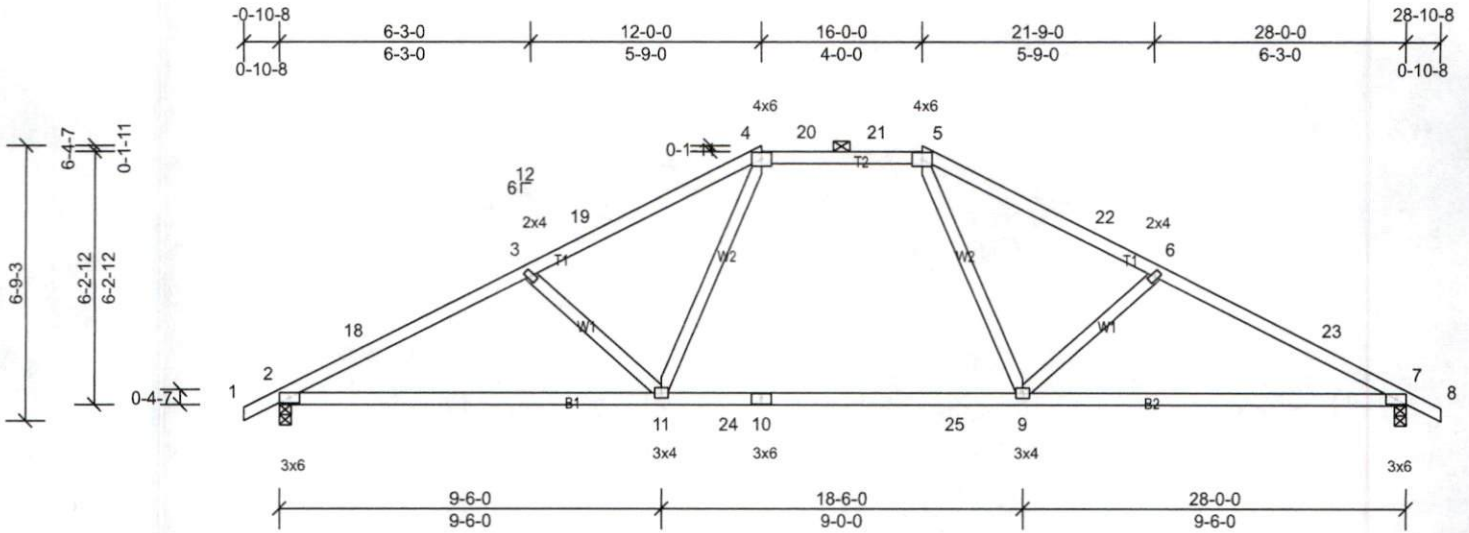
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
Wayne O'Quinn	A05	Hip	2	1	

Carolina Structural Systems, Star, NC 27356, Jeremy Phillips

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Scale = 1:54.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.26	9-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.42	9-17	>801	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS								
											Weight: 123 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-9-8 max.): 4-5.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS**

(lb/size) 2=1172/0-3-8, (min. 0-1-9), 7=1173/0-3-8, (min. 0-1-9)  
 Max Horiz 2=100 (LC 11)  
 Max Uplift 2=-94 (LC 12), 7=-94 (LC 12)  
 Max Grav 2=1299 (LC 17), 7=1299 (LC 18)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-18=-2205/165, 3-18=-2177/193, 3-19=-1970/145, 4-19=-1896/173, 4-20=-1453/192, 20-21=-1453/192, 5-21=-1453/192, 5-22=-1896/173, 6-22=-1970/145, 6-23=-2177/193, 7-23=-2205/165  
 BOT CHORD 2-11=-95/2017, 11-24=-8/1475, 10-24=-8/1475, 10-25=-8/1475, 9-25=-8/1475, 7-9=-104/1941  
 WEBS 5-9=0/684, 4-11=0/683, 3-11=-433/142, 6-9=-433/142

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft; B=45ft; L=28ft; eave=4ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 12-0-0, Exterior(2E) 12-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 20-2-15, Interior (1) 20-2-15 to 28-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 2 and 94 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

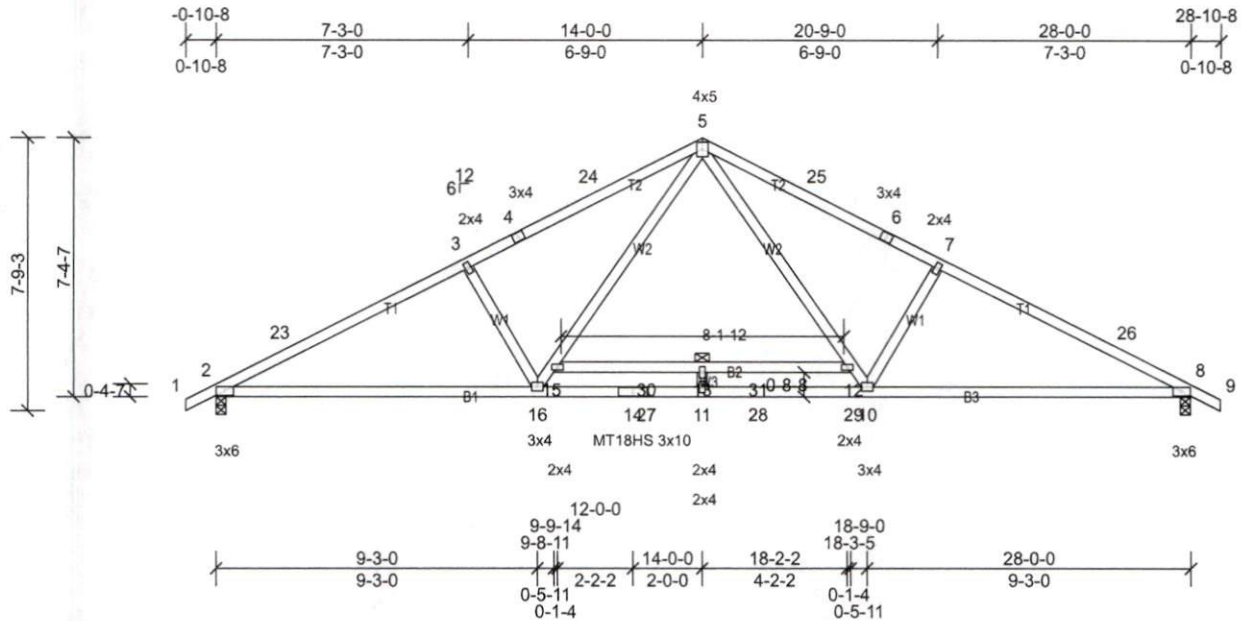
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
Wayne O'Quinn	A06	Common	5	1	

Carolina Structural Systems, Star, NC 27356, Jeremy Phillips

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Scale = 1:62.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.40	13	>843	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.67	13	>498	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS						Weight: 141 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.1 \*Except\* B2:2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied. Except:  
 6-0-0 oc bracing: 12-15

**REACTIONS** (lb/size)

2=1260/0-3-8, (min. 0-1-11),  
 8=1260/0-3-8, (min. 0-1-11)  
 Max Horiz 2=117 (LC 11)  
 Max Uplift 2=-42 (LC 12), 8=-42 (LC 12)  
 Max Grav 2=1452 (LC 17), 8=1452 (LC 18)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**TOP CHORD**

2-23=-2529/41, 3-23=-2485/69,  
 3-4=-2376/64, 4-24=-2293/80,  
 5-24=-2291/97, 5-25=-2291/97,  
 6-25=-2293/80, 6-7=-2376/64,  
 7-26=-2485/69, 8-26=-2529/41

**BOT CHORD**

2-16=0/2296, 14-16=0/1624, 14-27=0/1624,  
 11-27=0/1624, 11-28=0/1624, 28-29=0/1624,  
 10-29=0/1624, 8-10=0/2223

**WEBS**

5-12=0/1096, 10-12=-14/916, 7-10=-424/163,  
 15-16=-14/917, 5-15=0/1096, 3-16=-424/163

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=125mph (3-second gust)  
 Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft;  
 B=45ft; L=28ft; eave=4ft; Ke=1.00; Cat. II; Exp B;  
 Enclosed; MWFRS (directional) and C-C Exterior(2E)  
 -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 14-0-0, Exterior(2R)  
 14-0-0 to 17-0-0, Interior (1) 17-0-0 to 28-10-8 zone;  
 cantilever left and right exposed; end vertical left and  
 right exposed; C-C for members and forces & MWFRS  
 for reactions shown; Lumber DOL=1.60 plate grip  
 DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom  
 chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf  
 on the bottom chord in all areas where a rectangle  
 3-06-00 tall by 2-00-00 wide will fit between the bottom  
 chord and any other members, with BCDL = 10.0psf.

- 6) Provide mechanical connection (by others) of truss to  
 bearing plate capable of withstanding 42 lb uplift at joint  
 2 and 42 lb uplift at joint 8.
- 7) This truss is designed in accordance with the 2018  
 International Residential Code sections R502.11.1 and  
 R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16"  
 structural wood sheathing be applied directly to the top  
 chord and 1/2" gypsum sheetrock be applied directly to  
 the bottom chord.

**LOAD CASE(S)** Standard

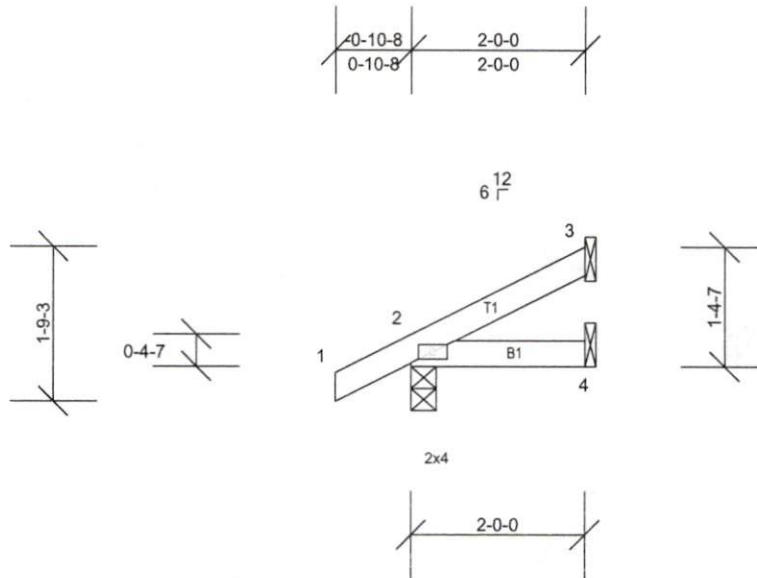
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
Wayne O'Quinn	J03	Jack-Open	4	1	

Carolina Structural Systems, Star, NC 27356, Jeremy Phillips

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Scale = 1:25.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 8 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size)

2=144/0-3-8, (min. 0-1-8), 3=45/  
 Mechanical, (min. 0-1-8), 4=23/  
 Mechanical, (min. 0-1-8)  
 Max Horiz 2=47 (LC 12)  
 Max Uplift 2=31 (LC 12), 3=13 (LC 12)  
 Max Grav 2=144 (LC 1), 3=45 (LC 1), 4=34  
 (LC 3)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250  
 (lb) or less except when shown.

**NOTES**

- 1) Wind: ASCE 7-16; Vult=125mph (3-second gust)  
 Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft;  
 B=45ft; L=24ft; eave=4ft; Ke=1.00; Cat. II; Exp B;  
 Enclosed; MWFRS (directional) and C-C Exterior(2E)  
 zone; cantilever left and right exposed; end vertical left  
 and right exposed; C-C for members and forces &  
 MWFRS for reactions shown; Lumber DOL=1.60 plate  
 grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom  
 chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf  
 on the bottom chord in all areas where a rectangle  
 3-06-00 tall by 2-00-00 wide will fit between the bottom  
 chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to  
 bearing plate capable of withstanding 13 lb uplift at joint  
 3 and 31 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018  
 International Residential Code sections R502.11.1 and  
 R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



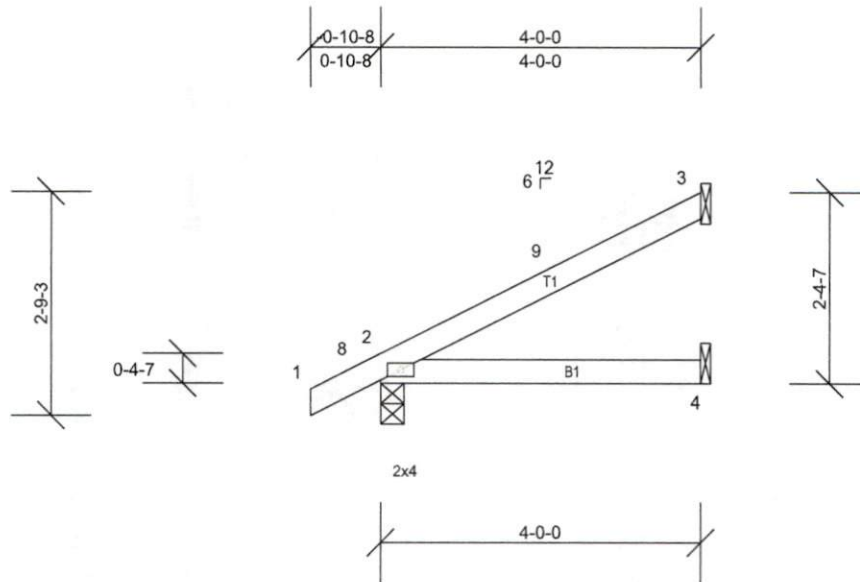
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
Wayne O'Quinn	J04	Jack-Open	22	1	

Carolina Structural Systems, Star, NC 27356, Jeremy Phillips

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Scale = 1:27.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS							Weight: 14 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS** (lb/size) 2=216/0-3-8, (min. 0-1-8), 3=102/  
Mechanical, (min. 0-1-8), 4=50/  
Mechanical, (min. 0-1-8)  
Max Horiz 2=75 (LC 12)  
Max Uplift 2=-25 (LC 12), 3=-34 (LC 12)  
Max Grav 2=216 (LC 1), 3=102 (LC 1), 4=71  
(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250  
(lb) or less except when shown.

#### NOTES

- 1) Wind: ASCE 7-16; Vult=125mph (3-second gust)  
Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft;  
B=45ft; L=24ft; eave=4ft; Ke=1.00; Cat. II; Exp B;  
Enclosed; MWFRS (directional) and C-C Exterior(2E)  
-0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-11-4 zone;  
cantilever left and right exposed; end vertical left and  
right exposed; C-C for members and forces & MWFRS  
for reactions shown; Lumber DOL=1.60 plate grip  
DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 34 lb uplift at joint  
3 and 25 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018  
International Residential Code sections R502.11.1 and  
R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16"  
structural wood sheathing be applied directly to the top  
chord and 1/2" gypsum sheetrock be applied directly to  
the bottom chord.

**LOAD CASE(S)** Standard