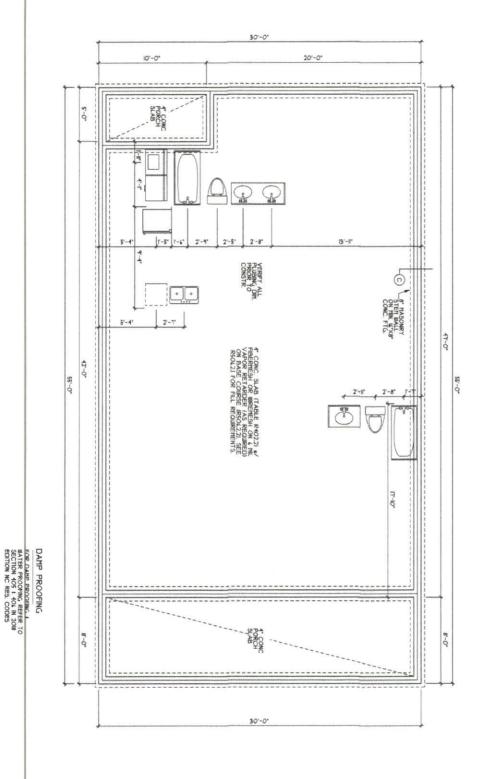


STEM WALL SLAB
FOUNDATION PLAN
SCALE 1/4" = 1'-0"



DATE: 05/24/2 050521 I STORY

H SQUARED HOME DESIGN, INC.

HEATHER HALL 185 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403

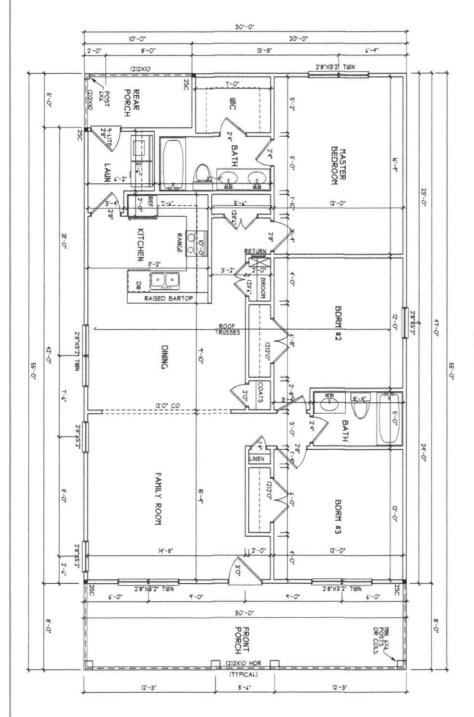
FIRST FLOOR FRONT PORCH REAR PORCH

= 1360 = 240 = 50 #1360

HEATED FOOTAGE

THE CHARLESTON

Seven Magnolias Const.



HEADER/BEAM & COLUMN NOTES

LALL EXTEROR AND LOAD
BEAGNIC HEADERS SHALL BE MN
BEAGNIC HEADERS SHALL BE MALL
BIT AN A'R WALLO OR 30 AM & SALL)
BIT AN SUPPORT SILID, UNLESS NOTED
OTHERWISE. 2 THE MIRRIER SHORM AT DEATH AND HELDER SHIPPORT STILDS. THE MIRRIER OF SUPPORT STILDS.

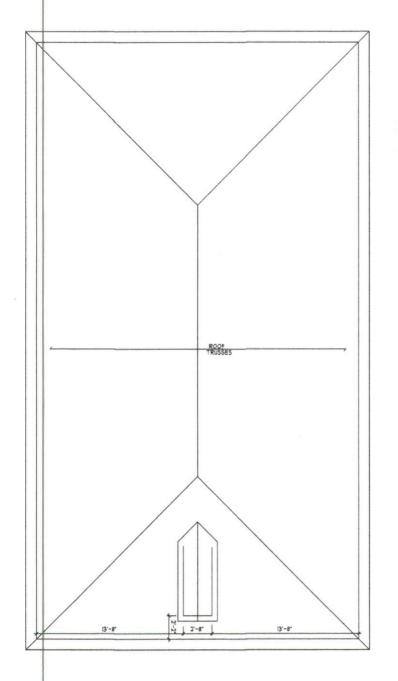
REGURED IN STILD POCKET OF KING STILDS AT EACH END OF HANGERS IN BYTESOR WALLES ACCORDING TO LITER OF MIRRIER ROZING OR AS RESIDER ROZING TO LITER OF MIRRIER ROZING OR AS RESIDER. UP TO 4 SPAN: (1) KING STUD OVER 4 UP TO 8' SPAN: (2) KING STUDS OVER 8' UP TO 8' SPAN: (3) KINGS STUDS OVER 8' SPAN: (4) KING STUDS

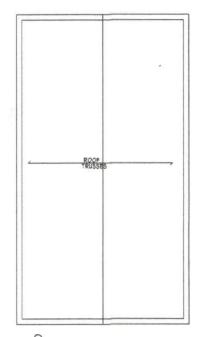
4 ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIET OR BEARING SHALL REET THE REQUIREMENTS AS SPECIFED ON THE TRUSS SCHEMATICS.

3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SOF #2 OR #3 PLATES OR LEDGERS #INO). 2. TRUSS SCHENATICS (PROPILES) SHALL BE PREPARED AND SEALED BY TRUSS HANIFACTURER. I. TRUSS SYSTEM LAYOUTS PLACEMENT PLANS)
SHALL BE DESIGNED IN ACCORDANCE BITH
SEALED TRUSS PROMIES ACCORDING BED TO
CHARGE TRUSS PROMIES SHALL BE COORDINATED
BITH THE TRUSS HABIFACTURER.

TRUSS SYSTEM REQUIREMENTS

OS/24/21 I STORY	ANY DEVIATION OF THE SPECIFIC PREAMERIESTS OR DIFFINATIONS O'DOS H SQUARED HOME DESIGN. THE FLAN HAS BEEN DRAIN ACCORDANCE THAT HOST H CAROLINA STATE RESIDENTIAL BALDING CODES ON BETTION.		SQUARED HEATHER HALL 185 HEATHER STONE C BENSON NC 27504 (919) 207-1403	**************************************	I II 1 2 6 () 1	THE CHARI)
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GABLE OPT.

SHALL BE DESIGNED INVOINTS OF ACCRESS TO MAIS SHALL BE DESIGNED IN ACCORDANCE BIT SEALED TRIBES PROFILES MAY REED TO WHAT INSESS SHALL BE CODERNATED THAT HE SCHEMETTES PROFILES SHALL BE LATRISES SCHEMETTES PROFILES SHALL BE HAMP ACTURED. SEALED BY TRIBES SHALL BE HAMP ACTURED. TRUSS SYSTEM REQUIREMENTS 3. ALL TRUSSES SHALL BE DESIGNED FOR BEARNG ON SPF #2 OR #3 PLATES OR LEDGERS (INO). 4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIET OR BEARNG, SHALL HEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

SCALE IVY = 1-0"

DATE: 05/24/2 1 STORY





STRUCTURAL NOTES

DI ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CARCUMA STATE RESIDENTIAL CODE - 2008 EDITION, PULS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER OR DESIGNES IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION HEARS, NETHODS, TECHNIQUES, SOCIENCES OF REOCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION BORK NOR WILL THE ENGINEER OR DESIGNES BE RESPONSIBLE FOR THE CONTRACTOR'S FAULURE TO CARRY OUT THE CONSTRUCTION BORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONSTRUCTION REVIEWS DERVICES ARE NOT PART OF UNE CONTRACT.

ALL REPORTS. CONSTRUCTION REVIEWS DEVICES ARE NOT PART OF UNE CONTRACT.

ALL REPORTS. CONSTRUCTION REVIEWS TO THE DIAL DIANGED IN ACCORDANCE WITH 150 AND SAFECE IN ACCORDANCE WITH 150 AND SAFECE IN ACCORDANCE.

23	DESIGN LOADS (R3OL4)	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (LL)
	ROOMS OTHER THAN SLEEPING RO	OMS 40	10	1./340
	SLEEPING ROOMS	30	10	L/340
	ATTIC WITH PERHANENT STAIR	40	10	1/340
	ATTIC WITH OUT PERMANENT STAIR	20	10	1./340
	ATTIC WITH OUT STORAGE	10	10	L/240
	STAIRS	40		L/340
	EXTERIOR BALCONES	40	10	L/340
	DECKS	40	10	1/340
	GUARDRAILS AND HANDRAILS	200		
	PASSENGER VEHICLE GARAGES	50	10	L/340
	FIRE ESCAPES	10	10	L/360
	SNOW	20		****

WIND LOAD (BASED ON 15/120 MPH WIND VELOCITY (EXPOSURE B)

3) WALL BRACING: BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO WALL BRACING: BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO SECTION ROZOLO.3.

THE ARIOUNT AND LOCATION OF BRACING SHALL COMPLY WITH TABLE RACOLO.1. THE LENGTH OF BRACED PANELS SHALL BE DETERMINED BY SECTION RACOLO.4. LATERAL BRACING SHALL BE SATISFED PER HETHOD 3 BY CONTINUOUSLY SHEATHING WALLS WITH STRUCTURAL SHEATHING PER SECTION RACOLO.3. NOTE THAT ANY SPECIFIC BRACED WALL DETAIL SHALL BE INSTALLED AS SPECIFIED.

4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SUMP OF 5 INCHES MILESS NOTED OTHERWISE UNION, ARE ENTRAINED PER TABLE 4022. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS, ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP.

SAMPLES FOR PRIPING SHALL BE TAKEN FROM THE EXIT END OF THE PUTE.

3 ALLOBABLE SOB BEARING PRESSURE A SUSHIED TO BE 2000 PSF. THE CONTRACTOR MISTS CONTRACT A GEOTECHNICAL ENGINEER AND THE STRUCTURL ENGINEER FOR MISTATISFACTORY SUBSINIFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAG AND SHALL BE GRADED SO AS TO DRAINAGENERACE WATER AMAY FROM FOUNDATION &

4) ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERRISE (UNO), ALL TREATED LUMBER SHALL BE SYP # 2 (Fp=415 PSI). PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fc|perp) = 425 PSI - MIN).

1) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (6) 2x4 STUD COLUMN FOR L^* -O' HAX. BEAM SPAN (UNO), (2) 2X4 STUDS FOR BEAM SPAN GREATER THAN L^* -O' (UNO).

SPAN GREATER TITAN 4-7 UNIVERSE LUMBER FIN-2LOO PSL FV-285 PSL E-1,140 PSL P.S.L. SHALL BE PARALLEL STRAND LUMBER: FIN-2700 PSL FV-2700 PSL E-2,040 PSL L.S.L. SHALL BE LAMMATED STRAND LUMBER: FIN-2250 PSL FV-4700 PSL E-1,5540 PSL RISTALL ALL CONNECTIONS PER HAMPACTURERS INSTRUCTIONS.

9) ALL ROOF TRUSS AND 1-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH ANY SEALED STRUCTURAL DRAWINGS. TRUSSES AND 1-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR 1-JOIST LAYOUT SHALL BE COORDINATED WITH DESIGNER OR BEIGNEER

TRUSS OR 1-JOIST LAYOUT SHALL BE COVERDINATED WITH DESIGNER OR ENGINE IN ALL STRUCTURAL STEEL SHALL BE ASTH A "AS. STEEL BEARIS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 L/2" INCHES AND HALL RANKE WIDTH, PROVIDE SOLD BEARING, FROM BEAM SUPPORT WITH TWO LAG SCREES LIC? "I DAINETER 4" I GIVEL LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED THE JOST ARE TOR NABED TO THE SOLE PLATE, AND SOLE PLATE, AND HALE OR BOLTED TO THE BEAM FLANGE 9" 48" O.C. . ALL STEEL TURNING SHALL BE ASTM ASOO.

ID REBAR SHALL BE DEFORMED STEEL, ASTNAIS, GRADE 40.

D REDAR SHALL BE BOLTED TOGETHER USING (2) ROUS OF V2* DIAMETER BOLTS (ASTM ASOT) WITH MASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24* O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2* EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 4* FROM EACH END.

BRICK LINTELS SHALL BE 3 1/2"x3 1/2"x/4" STEEL ANGLE FOR UP TO 6"-O" SPAN AND 6"x4"x5"x6" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO "-O" UINO).

14) THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF.

IS) THE POSITIVE AND NEGATIVE DESIGN PRESSURES REQUIRED FOR ANY ROOF OR WALL CLADDING APPLICATION NOT SPECIFICALLY ADDRESSED IN THE NORTH CARCULIN STATE RESIDENTIAL CODE - 208 EDITION SHALL BE AS FOLLOWS:

ROOF: 45.4 PSF - 2:25/2 PITCH OR LESS 34.8 PSF - 2:25/2 TO 1/2 PITCH 21 PSF - 142 TO 1242 PITCH WALLS:

241 PSF - WALLS

TRUSS SYSTEM REQUIREMENTS

L TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE BITH ROOF TRUSS LAYOUTS AND SEALED PROPULED PROVUED BY THE ROOF TRUSS HAMIFACTURER. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH THE ROOF TRUSS HAMIFACTURED.

2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS HANGACTURER.

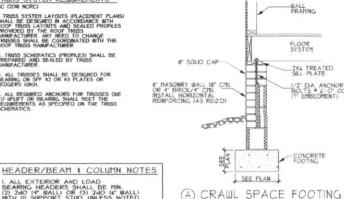
3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).

ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

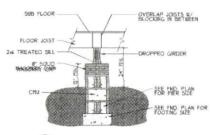
I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2300 (4" WALL) OR (3) 240 (4" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.

2. THE NUMBER SHOUN AT BEAH AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORTS STUDS OF COLUMN. THE NUMBER OF KING STUDS AT EACH BID OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "of IN TABLE REQ.25(5) OR AS BELOW.

UP TO 4' SPAN; (I) KING STUD OVER 4' UP TO 8' SPAN; (2) KING STUDS OVER 8' UP TO II' SPAN; (3) KINGS STUDS OVER II' SPAN; (4) KING STUDS



(SIDING BY BRICK SKIRT)



(B) DROPPED GIRDER

PRINCE LENGTH PER TABLE 1002 10 12 MINERONI / 4 FRANSIG MINERAL GOURGE BLUDS BTNOS UNDER HOADS the St. Landy 25 April

> FIGURE RIGO, 10.3.2 ALTERNATE BRACED WALL PANEL DODG OF HUSEY

> > 100 A

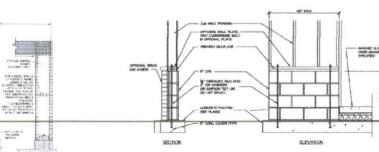
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FORTEN FOR PLANS TO ADMINISTRATIONS FOR

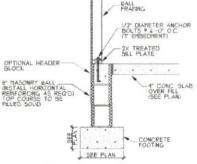
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NA WILLIAMS COM CONC. (discussor of

- 57K 67K 17K 17K 68K2 N 1.5



GARAGE WING WALL' REINFORCING MER PROFIGURE RE02210.43



(C) STEM WALL FOOTING

DARRAGE SLAD OMER GRANGS, AG SPECIFIED

BUILDING DETAIL SHEET (115-120 MPH) BASIC

TON NOTE ALS A PLAN. *PLEASE ALL DETA

5 170NE C 27504 1403 HEATHER HA 9

H SQUARED HOME DESIGN, INC.

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DATE

PILE:

FIGURE REGG 10.3.2 METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS



Trenco

818 Soundside Rd Edenton, NC 27932

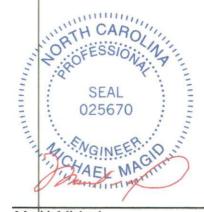
Re: 2861338 2861338

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Stock Building Supply.

Pages or sheets covered by this seal: T24885358 thru T24885361

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



August 2,2021

Magid, Michael

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Ply Qty 2861338 Job Truss Truss Type T24885358 2 2861338 A1GE Common Job Reference (optional) Page: 1 Run: 8.43 S Jul 16 2021 Print: 8.430 S Jul 16 2021 MiTek Industries, Inc. Mon Aug 02 10:57:57 Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557, ID:qllmkHh_2wgBCM5R69T94lz_7fl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 16-0-0 32-0-0 16-0-0 16-0-0 5x6= 9 2x4 II 2x4 I 612 2x4 n 8 10 2x4 II 2x4 # 3x4 = 3×4 7 11 2x4 II 2x4 # 2x4 II 12 6 13 5 14 2x4 II 2x4 II 3 15 2x4 u 2x4 II 16 2 04-2 E) 31 30 2827 25 24 23 22 21 20 19 18 32 29 26 3x4= 2x4 II 2x4 II 2x4 II 2x4 II 2x4 II 2x4 I 3x4= 3×4 = 32-0-0 31-0-0 Scale = 1:60.6 CS DEFL PLATES GRIP in I/defl L/d Loading (bsf) Spacing 2-0-0 (loc) TCLL (roof) 20.0 Plate Grip DOL 1.00 TC 0.16 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 BC Vert(TL) n/a 999 0.0 0.15 n/a BCLL 0.0 Rep Stress Incr YES WB 0.37 Horiz(TL) -0.01 18 n/a n/a Weight: 189 lb FT = 20% IRC2015/TPI2014 Matrix-MS BCDI 0.0 Code **BOT CHORD** 1-32=-237/75, 31-32=-237/73, LUMBER 30-31=-237/73, 29-30=-237/73 TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 LOAD CASE(S) Standard SP M 31 27-29=-237/73, 26-27=-237/73, 25-26=-237/73, 24-25=-237/73, BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 23-24=-237/73, 22-23=-237/73, SP M 31 20-22=-237/73, 19-20=-237/73 2x4 SP No 2 OTHERS 18-19=-237/73, 17-18=-237/73 BRACING 9-25=-329/0, 8-26=-139/51, 7-27=-116/64, WEBS TOP CHORD Structural wood sheathing directly applied or 6-29=-119/58, 4-30=-141/62, 3-31=-67/62, 10-0-0 oc purlins. 2-32=-282/94, 10-24=-139/51, **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc 11-23=-116/64, 12-22=-119/58 bracing. 14-20=-141/62, 15-19=-67/61, 16-18=-282/94 REACTIONS (lb/size) 18=364/30-0-0, 19=58/30-0-0, NOTES 20 185/30-0-0, 22=155/30-0-0, Unbalanced roof live loads have been considered for 23=155/30-0-0, 24=179/30-0-0, this design 25+370/30-0-0, 26=179/30-0-0, Wind: ASCE 7-10; Vult=115mph (3-second gust) 27 155/30-0-0, 29=155/30-0-0. Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. 30 185/30-0-0. 31 = 58/30-0-0. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 32 = 364/30-0-0 and C-C Exterior (2) zone; cantilever left and right Max Horiz 32=-105 (LC 11) exposed; end vertical left and right exposed; C-C for Max Uplift 18=-28 (LC 10), 19=-61 (LC 11), members and forces & MWFRS for reactions shown; 20=-19 (LC 11), 22=-29 (LC 11), Lumber DOL=1.60 plate grip DOL=1.33 -30 (LC 11), 24=-22 (LC 11), Truss designed for wind loads in the plane of the truss 26=-22 (LC 10), 27=-30 (LC 10), only. For studs exposed to wind (normal to the face), CAROLIN 29=-29 (LC 10), 30=-18 (LC 10), see Standard Industry Gable End Details as applicable 31=-64 (LC 10), 32=-32 (LC 11) or consult qualified building designer as per ANSI/TPI 1. 18=469 (LC 22), 19=123 (LC 21), Max Grav Gable studs spaced at 2-0-0 oc. 20=208 (LC 22), 22=155 (LC 1), This truss has been designed for a 10.0 psf bottom 23=158 (LC 22), 24=179 (LC 1), chord live load nonconcurrent with any other live loads 25=370 (LC 1), 26=179 (LC 1), * This truss has been designed for a live load of 20.0psf 27=158 (LC 21), 29=155 (LC 1) on the bottom chord in all areas where a rectangle SFAL 30 = 208 (LC 21), 31=123 (LC 22), 3-06-00 tall by 2-00-00 wide will fit between the bottom 32=469 (LC 21) 025670 chord and any other members. FORCES (lb) - Maximum Compression/Maximum Provide mechanical connection (by others) of truss to Tension bearing plate capable of withstanding 22 lb uplift at joint TOP CHORD 1-2=-52/323, 2-3=-7/272, 3-4=0/296. 26, 30 lb uplift at joint 27, 29 lb uplift at joint 29, 18 lb NGINEE MAGIN 4-6=0/291, 6-7=0/291, 7-8=0/298, 8-9=0/293, uplift at joint 30, 64 lb uplift at joint 31, 32 lb uplift at joint 9-10=0/291, 10-11=0/297, 11-12=0/291, 12-14=0/291, 14-15=0/296, 15-16=-4/272, 32, 22 lb uplift at joint 24, 30 lb uplift at joint 23, 29 lb uplift at joint 22, 19 lb uplift at joint 20, 61 lb uplift at joint 16-17=-50/323 19 and 28 lb uplift at joint 18. August 2,2021



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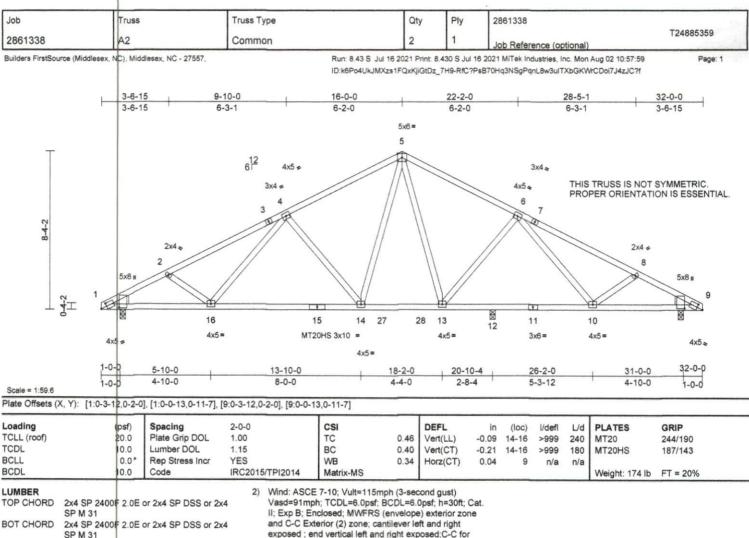
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OWNER'S



WEBS 2x4 SP No.2

WEDGE Left: 2x6 SP No.2

Right: 2x6 SF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-6-4 oc purlins

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (lb/size) 1=1175/0-3-8, 9=1075/0-3-8,

12=310/0-3-8 Max Horiz 1= 105 (LC 11)

Max Uplift 1= 52 (LC 10), 9=-64 (LC 11)

1=1175 (LC 1), 9=1075 (LC 1),

12=325 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1699/272, 2-4=-1625/256, 4-5=-1294/293, 5-6=-1172/299,

6-8=-1413/266, 8-9=-1502/281

1-16=-196/14/14, 14-16=-135/1350,

13-14=-11/923, 12-13=-142/1210,

10-12=-142/1210, 9-10=-202/1263

5-14=-62/573, 4-14=-463/172, 4-16=0/225, 2-16=-42/116, 6-13=-420/174, 6-10=-24/114,

8-10=-104/108, 5-13=-95/221

NOTES

WEBS

BOT CHORD

1) Unbalanced roof live loads have been considered for this design

- exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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 52 lb uplift at joint 1 and 64 lb uplift at joint 9.

LOAD CASE(S) Standard



August 2,2021



Design valid for use only with MITE® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery erection and bracing of trusses and truss systems, see

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Qty 2861338 Job Truss Type Truss T24885360 5 2861338 Common A3 Job Reference (optional) Run: 8.43 S Jul 16 2021 Print: 8.430 S Jul 16 2021 MiTek Industries, Inc. Mon Aug 02 10:58:00 Page: 1 Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557 ID:gam9sHBu1PnDaeVbRMbYC1z_7W3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 32-0-0 9-10-0 16-0-0 22-2-0 28-5-1 3-6-15 6-2-0 6-3-1 3-6-15 3-6-15 6-3-1 6-2-0 5x6= 5 612 4x5 = 3x4 & 3x4 4x5 a 6 2x4 4 2x4 4 2 6x8 II 6x8 04-2 T 12 11 10 15 13 26 4x5= 3x4 = 4x12 H 4x5= 3x6= 4x5= 5x6 * 4x5= 4x5= 4x12 II 32-0-0 1-0-1 5-8-7 11-6-0 13-10-15 18-2-0 23-0-0 26-2-0 31-0-0 4-8-7 5-9-9 2-4-15 4-3-1 4-10-0 3-2-0 4-10-0 1-0-0 1-0-0 Scale = 1:61.9 Plate Offsets (X, Y): [1:0-1-12,Edge], [1:0-0-5,0-10-15], [9:0-1-12,Edge], [9:0-0-9,0-10-15], [13:0-7-8,0-2-0] 2-0-0 CSI DEFL (loc) I/defl L/d **PLATES** GRIP Loading psf Spacing Vert(LL) -0.10 10-12 >999 240 MT20 244/190 TCLL (roof) 20.0 Plate Grip DOL 1.00 TC 0.51 TCDL Lumber DOL 1.15 BC 0.49 Vert(CT) -0.24 10-12 >999 180 10.0 Rep Stress Inci YES 0.05 BCLL 0.0 WB 0.33 Horz(CT) 9 n/a n/a FT = 20% BCDL Code IRC2015/TPI2014 Matrix-MS Weight: 192 lb 0.0 Wind: ASCE 7-10; Vult=115mph (3-second gust) LUMBER Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 II; Exp B; Enclosed; MWFRS (envelope) exterior zone SP M 31 and C-C Exterior (2) zone; cantilever left and right BOT CHORD 2x4 SP 2400 2.0E or 2x4 SP DSS or 2x4 exposed; end vertical left and right exposed; C-C for SP M 31 *Except* 15-13:2x6 SP 2400F 2.0E

or 2x6 SP DSS or 2x6 SP M 31 WEBS 2x4 SP No.2

WEDGE

Left: 2x6 SP No.2 Right: 2x6 SF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-10 oc pullins

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

1=1280/0-3-8, 9=1280/0-3-8 REACTIONS (lb/size)

Max Horiz 1= 105 (LC 11) Max Uplift 1= 37 (LC 10), 9=-37 (LC 11)

(lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=-1952/279, 2-4=-1893/257,

4-5=-1536/289, 5-6=-1506/283, 6-8=-1814/248, 8-9=-1873/264

1-15=-200/1629, 13-15=-136/1583, 12-13=-5/1146 10-12=-127/1535

9-10=-189/1558

WEBS

4-15=0/232, 2-15=-21/127, 4-13=-471/175, 5-13=-76/542, 6-12=-457/173, 6-10=0/199, 8-10=-17/136, 5-12=-57/484

NOTES

BOT CHORD

1) Unbalanced roof live loads have been considered for this design.

- members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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 37 lb uplift at joint 1 and 37 lb uplift at joint 9.

LOAD CASE(S) Standard



August 2,2021







Edenton NC 27932

Job Truss Type Qty Ply 2861338 T24885361 2861338 Common 20 Job Reference (optional) Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557, Run: 8.43 S Jul 16 2021 Print: 8.430 S Jul 16 2021 MiTek Industries, Inc. Mon Aug 02 10:58:00 ID:K7vpGeKwdBfHvZl1eLBRFyz_7O8-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 3-6-15 9-10-0 16-0-0 22-2-0 28-5-1 32-0-0 3-6-15 6-3-1 6-2-0 6-2-0 3-6-15 5x6= 5 612 4x5 \$ 3x4 a 3x4 6 8-4-2 2x4 6 2 6x8 II 04-2 T 15 14 13 26 27 12 11 10 4x5= 3x6= 4x5= 4x5= 3x6= 4x5= 5x6= 5x6= 1-0-0 32-0-0 5-10-0 13-10-0 18-2-0 26-2-0 31-0-0 4-10-0 8-0-0 4-4-0 8-0-0 4-10-0 1-0-0 1-0-0 Scale = 1:57.2 Plate Offsets (X, Y): [1:0-1-12,Edge], [1:0-0-9,0-10-15], [9:0-1-12,Edge], [9:0-0-9,0-10-15] Loading psf Spacing 2-0-0 CSI DEFL (loc) L/d PLATES GRIP in I/defl TCLL (roof) 20.0 Plate Grip DOL 1.00 TC 0.51 Vert(LL) -0.11 13-15 >999 240 MT20 244/190 BC TCDI 10.0 Lumber DOL 1 15 0.40 Vert(CT) -0.2613-15 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.33 Horz(CT) 0.05 9 n/a n/a BCDL 10.0 IRC2015/TPI2014 Matrix-MS Weight: 174 lb FT = 20% LUMBER 3) This truss has been designed for a 10.0 psf bottom 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 TOP CHORD chord live load nonconcurrent with any other live loads. **SP M 31** * This truss has been designed for a live load of 20.0psf **BOT CHORD** 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 on the bottom chord in all areas where a rectangle SP M 31 3-06-00 tall by 2-00-00 wide will fit between the bottom **WEBS** 2x4 SP No.2 chord and any other members, with BCDL = 10.0psf. Left: 2x6 SP No.2 Provide mechanical connection (by others) of truss to WEDGE Right: 2x6 SP No.2 bearing plate capable of withstanding 37 lb uplift at joint 1 and 37 lb uplift at joint 9. BRACING LOAD CASE(S) Standard TOP CHORD Structural wood sheathing directly applied or **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=1280/0-3-8, 9=1280/0-3-8

Max Horiz 1=105 (LC 11)

Max Uplift 1=37 (LC 10), 9=-37 (LC 11) (lb) - Maximum Compression/Maximum

FORCES

Tension

1-2=-1875/264, 2-4=-1816/247, TOP CHORD

4-5=-1503/284, 5-6=-1503/284, 6-8=-1816/247, 8-9=-1875/264 1-15=-189/1\$59, 13-15=-127/1534,

12-13=-2/1132, 10-12=-127/1534

9-10=-189/1559

WEBS 5-13=-65/507, 4-13=-459/172, 4-15=0/206

2-15=-15/139, 6-12=-459/172, 6-10=0/206,

8-10=-15/139, 5-12=-65/507

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-10; Vult= 15mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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=1.33



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

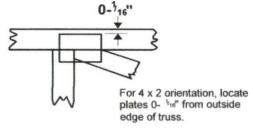


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal

Plate Connected Wood Truss Construction.

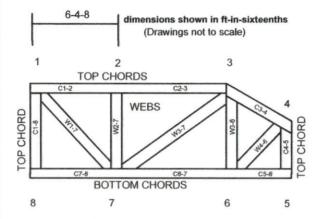
DSB-89: Design Standard for Bracing.

BCSI:

Building Component Safety Information, Guide to Good Practice for Handling.

Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 2. Truss bracing must be designed by an engineer, For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- 3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other.
- 6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- 8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- 16. Do not cut or after truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise,
- 18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.