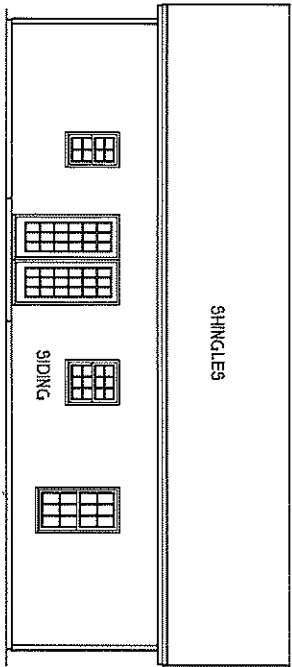


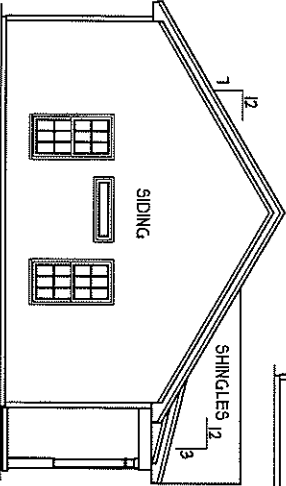
FRONT ELEVATION

SCALE 1/4" = 1'-0"



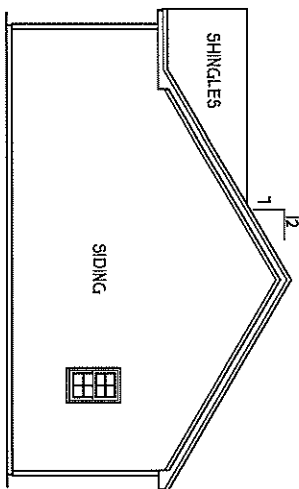
REAR ELEVATION

SCALE 1/8" = 1'-0"



LEFT ELEVATION

SCALE 1/8" = 1'-0"



RIGHT ELEVATION

SCALE 1/8" = 1'-0"

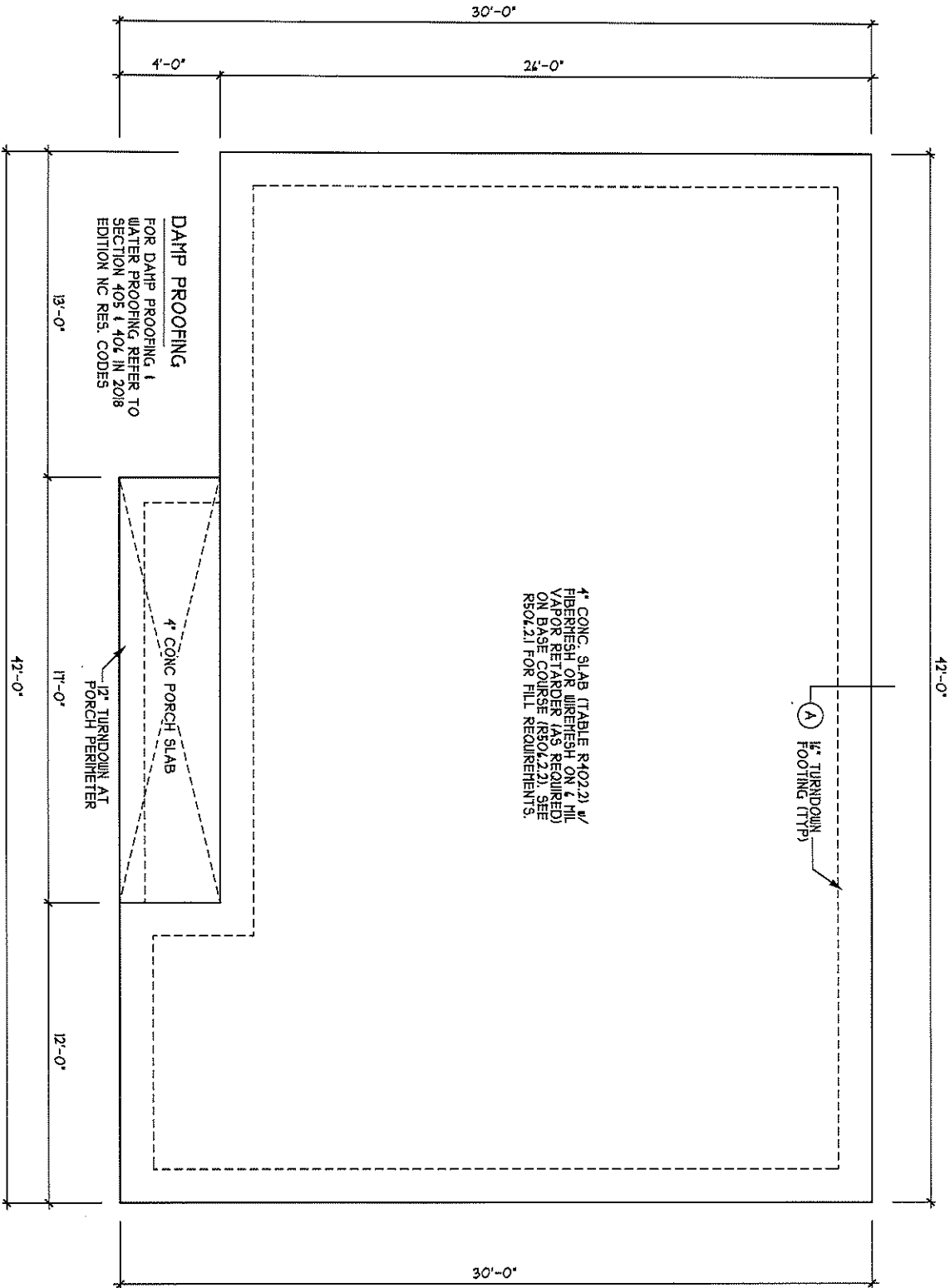
ATTIC VENTILATION:

THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN THE NET AREA OF THE ROOF FINISH, EXCEPT FOR THE AREA OF ROOF FINISH PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE AREA AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS.
GROSS ATTIC AREA TO BE VENTILATED 1208 SQ.FT.
1208/50 = 605 SQ.FT. NET FREE AREA

ENERGY COMPLIANCE
ZONE 3 = MAX. GLAZING U-FACTOR .35
R-VALUE = CEILING, R13, WALLS, FLOORS R11
FOR JOHNSTON, SAMPSON, WATKINS COUNTY
ZONE 4 = MAX. GLAZING U-FACTOR .35
FOR BLUE, DEXTER, ORANGE COUNTY



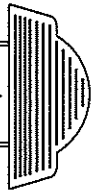
DATE: 04/02/2021 1 STORY 010921	H SQUARED HOME DESIGN, INC.	HEATHER HALL 155 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403	SQUARE FOOTAGE: FIRST FLOOR = 540 FRONT PORCH = 88	HEATED FOOTAGE: #1140	THE BIRCH RIGHT HAND JRT MANG. PROP.
			THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN THE NET AREA OF THE ROOF FINISH, EXCEPT FOR THE AREA OF ROOF FINISH PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE AREA AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS. GROSS ATTIC AREA TO BE VENTILATED 1208 SQ.FT. 1208/50 = 605 SQ.FT. NET FREE AREA		

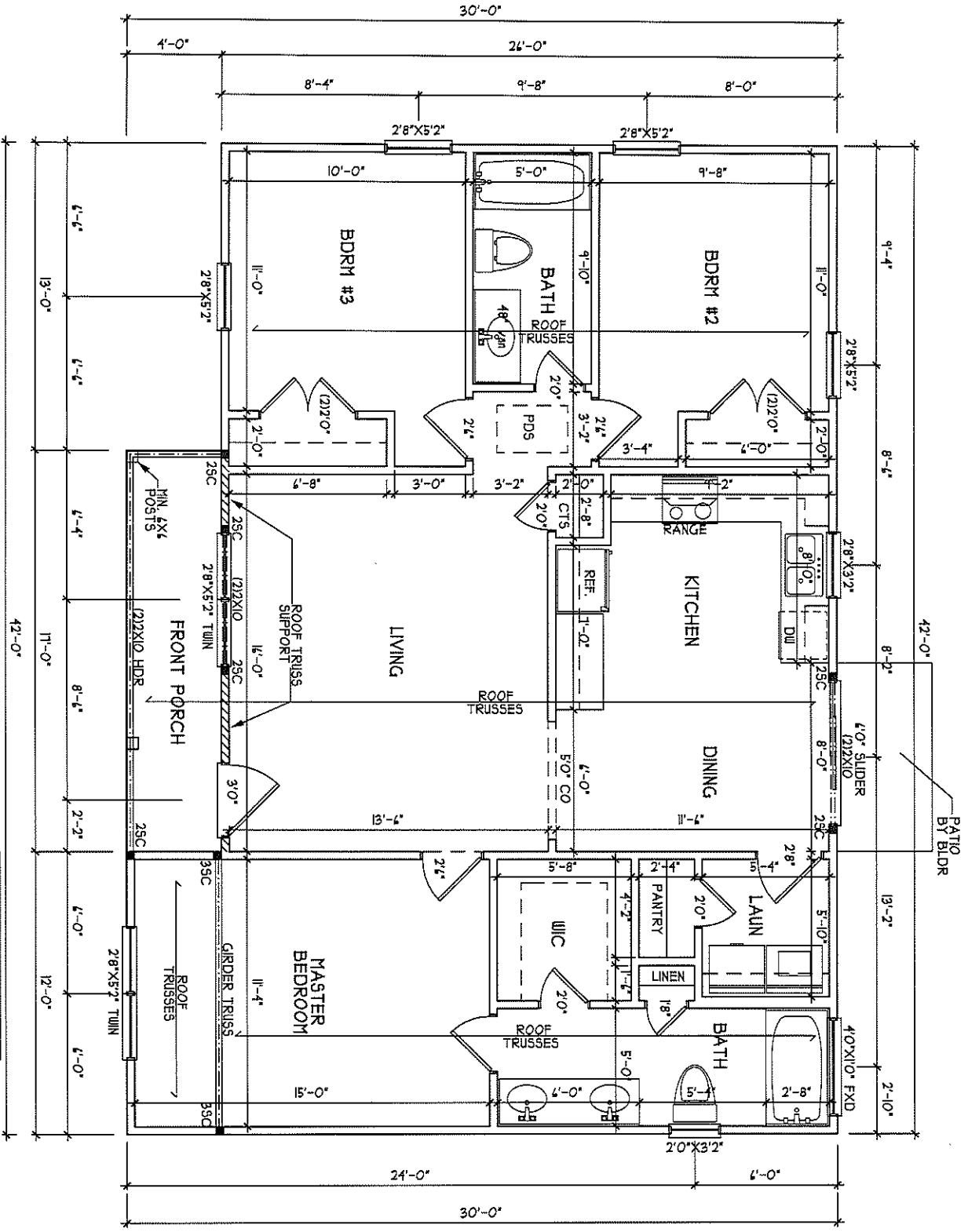


REFER TO BASIC DETAIL SHEETS FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

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

DATE: 01/02/2021 1 STORY 010921	ANY DEVIATION OF THE OPERING PARAMETERS OR CONDITIONS FROM AS SHOWN ON THIS PLAN SHALL BE THE RESPONSIBILITY OF THE USER. THIS PLAN HAS BEEN PREPARED FOR THE PROJECT AND SHALL BE VALID ONLY FOR THE PROJECT, LOCATION, STATE, TERRITORY, COUNTY, COUNTY AND ZONING REGULATIONS.	H² H SQUARED HOME DESIGN, INC. HEATHER HALL 185 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403	SQUARE FOOTAGE: FIRST FLOOR = 140 FRONT PORCH = 68	HEATED FOOTAGE: #1140	THE BIRCH RIGHT HAND JRT MANG. PROP.
			SQUARE FOOTAGE: FIRST FLOOR = 140 FRONT PORCH = 68		

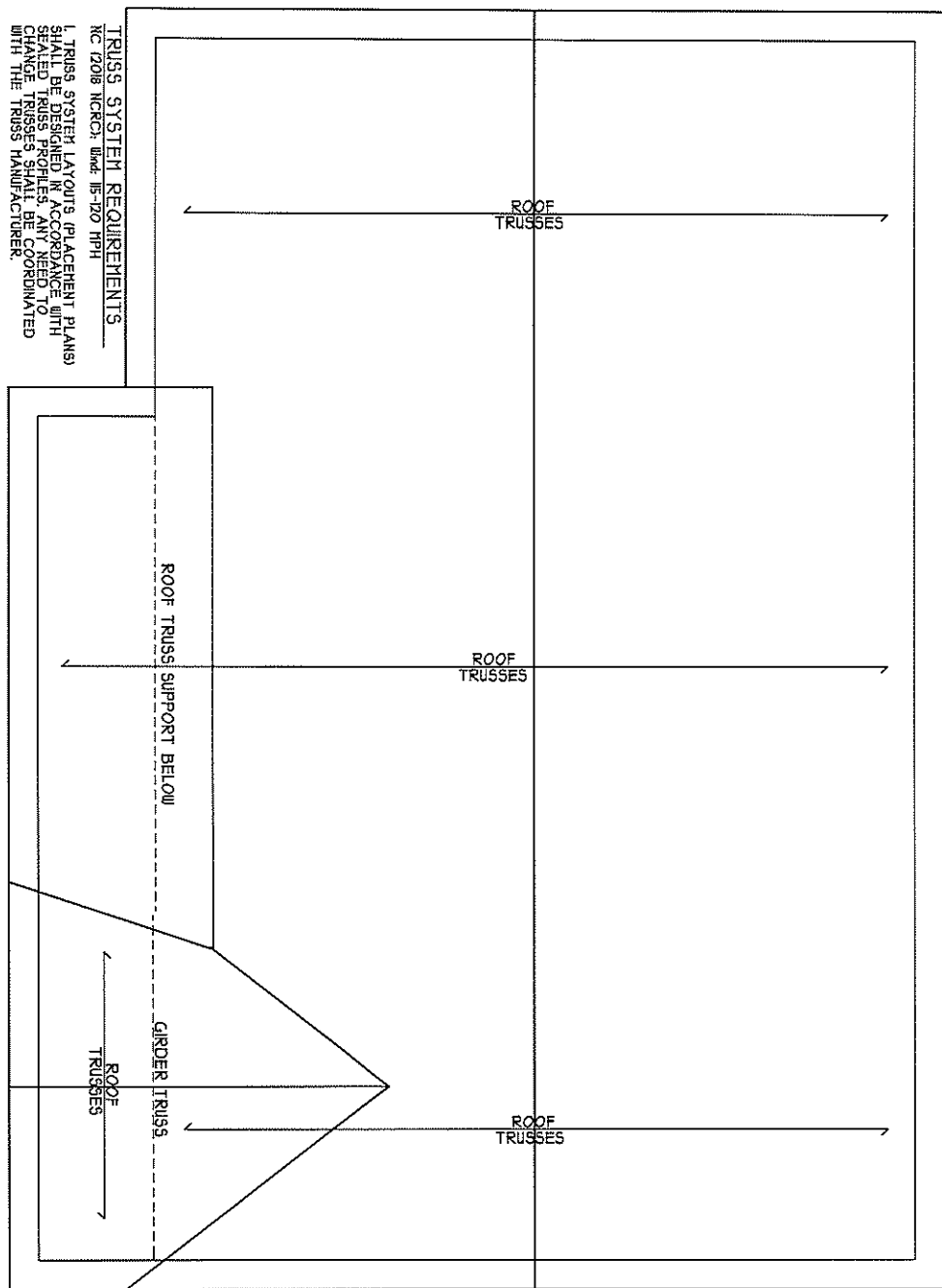




REFER TO BASIC DETAIL SHEETS FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

FIRST FLOOR PLAN
SCALE 1/4" = 1'-0"

DATE: 01/02/2022 DRAWN BY: [Signature] CHECKED BY: [Signature] PROJECT NO: 1140	H SQUARED HOME DESIGN, INC.	HEATHER HALL 185 HEATHERSTONE CT BENSON NC 27504 (919) 207-1408	SQUARE FOOTAGE: FIRST FLOOR = 140 FRONT PORCH = 68	HEATED FOOTAGE: #1140	THE BIRCH RIGHT HAND JRT MANG. PROP.
			PROJECT NO: 010921		




TRUSS SYSTEM REQUIREMENTS
 NC (2018) NCRCA: Wind: IS-120 HPH

1. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH CHANGE TRUSSES SHALL BE COORDINATED WITH THE TRUSS MANUFACTURER.
2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (MIN).
4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO BEARING OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

REFER TO BASIC DETAIL SHEETS(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

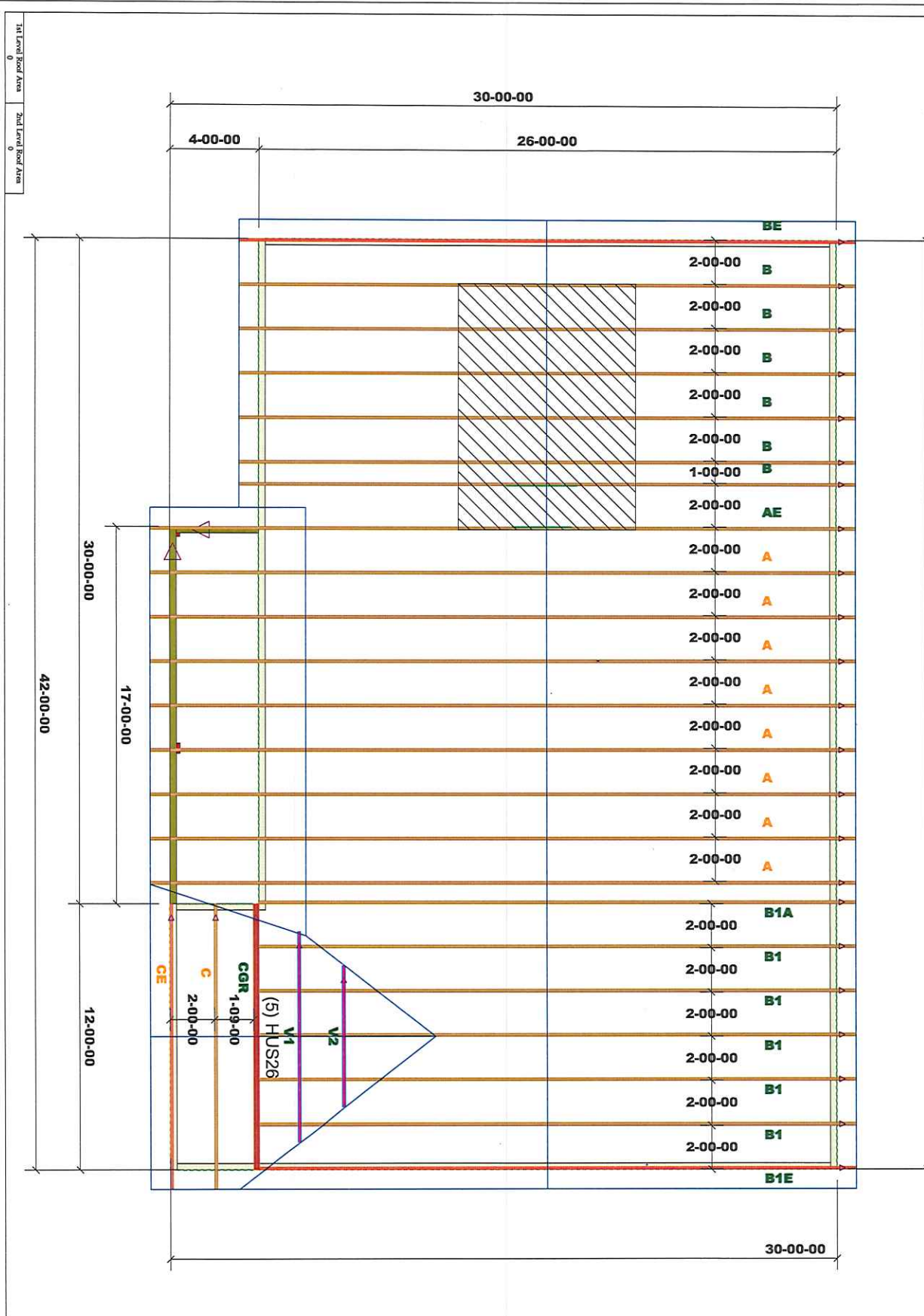
ROOF PLAN
 SCALE 1/4" = 1'-0"



DATE 01/14/2021	 H SQUARED HOME DESIGN, INC.	HEATHER HALL 185 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403	SQUARE FOOTAGE: FIRST FLOOR = 140 FRONT PORCH = 68	HEATED FOOTAGE: #1140	THE BIRCH RIGHT HAND JRT MANG. PROP.
--------------------	--	--	--	---------------------------------	--

PREPARED BY: JRT
 CHECKED BY: JRT
 DATE: 01/14/2021
 SCALE: 1/4" = 1'-0"
 SHEET NO: 010921

THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.



<p>GENERAL NOTES:</p> <ul style="list-style-type: none"> - DO NOT CUT OR MODIFY TRUSSES - TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED - REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS. - PER ANSI TP1 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLACEMENT PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION. 	<p>TOP LINE LOAD: 200 BM²</p>	<p>PROJECT: BIRCH NO VAULT</p>	<p>DEDICATED TO QUALITY AND EXCELLENCE 200 EMMETT ROAD DUNN, NORTH CAROLINA 28534 PHONE: 910-828-8100</p> <p>B4 LUMBER COMPONENTS</p>
	<p>TOP DEAD LOAD: 100.0 BM²</p>	<p>CUSTOMER: 2307-84 Fayetteville</p>	
	<p>BOTTOM DEAD LOAD: 100.0 BM²</p>	<p>MODEL: BIRCH NO VAULT</p>	
	<p>WIND SPEED: 130 mph</p>	<p>QUOTE #: 28291 PRINT DATE: 9/2/2021 DRAWN BY: SCALE: N.T.S</p>	

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 28291-28291A
BIRCH PLAN - JRT

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.
Pages or sheets covered by this seal: 147752333 thru 147752344

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

North Carolina COA: C-0844

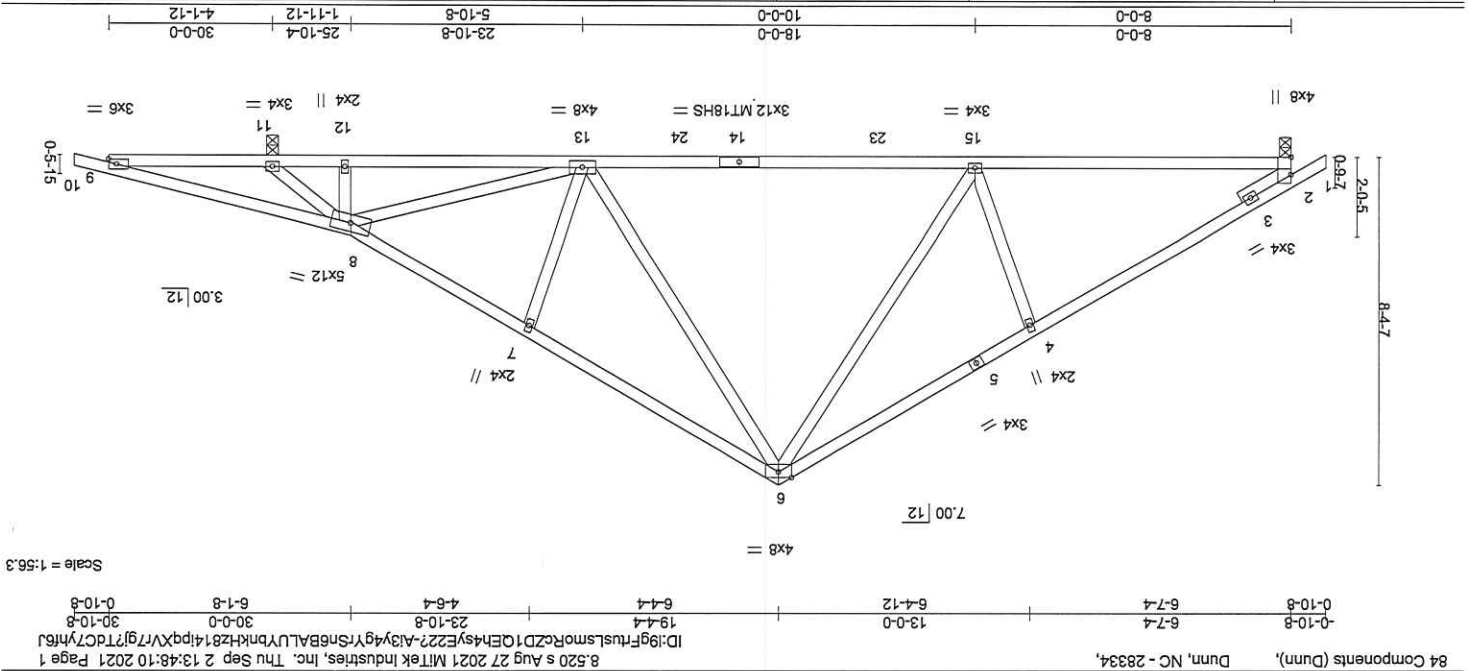


September 3, 2021

Sevier, Scott

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 MITTEK or TRENCO. Any project specific information included is for MITTEK's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MITTEK 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.

Job	28291-28291A	Truss	A	Dunn, NC - 28334,	84 Components (Dunn),	0-10-8	6-7-4	13-0-0	6-4-12	6-4-4	19-4-4	23-10-8	30-0-0	30-0-0	0-10-8	147752333
Truss Type	Roof Special	Qty	8	Ply	BIRCH PLAN - JRT	Job Reference (optional)	8,520 s Aug 27 2021 Mitek Industries, Inc. Thu Sep 2 13:48:10 2021 Page 1	ID:19gFrtuslsmoRCD1QEH4sYE22?-A13y4gYrSnbBALUVbnkH814ipqXV/r7g?Tdc7yh6l	0-10-8	6-1-8	6-1-8	6-1-8	6-1-8	6-1-8	0-10-8	



LOADING (psf)	TCLL	20.0	PLATE GRIP DOL	1.15	SPACING-	2-0-0	CSI,	0.75	DEFL.	in (loc)	1/defl	L/d	PLATES	GRIP	MT20	197/144	MT18HS	197/144	Weight: 155 lb	FT = 20%
84 Components (Dunn),	0-10-8	6-7-4	13-0-0	6-4-12	6-4-4	19-4-4	23-10-8	30-0-0	30-0-0	0-10-8	6-1-8	6-1-8	6-1-8	6-1-8	6-1-8	0-10-8	147752333			

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.3
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-6-0

REACTIONS.
 (size) 2=0-3-8, 11=0-3-8
 Max Horiz 2=204(LC 8)
 Max Uplift 2=134(LC 10), 11=200(LC 11)
 Max Grav 2=1066(LC 17), 11=1443(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1486/249, 4-6=-1416/333, 6-7=-1384/300, 7-8=-1425/222, 8-9=-316/748
 BOT CHORD 2-15=-186/1347, 13-15=-26/875, 12-13=-47/901, 11-12=-44/895, 9-11=-686/349
 WEBS 4-15=-341/249, 6-15=-152/688, 6-13=-117/637, 7-13=-355/221, 8-13=-89/407, 8-11=-1850/405

NOTES-
 (1) Unbalanced roof live loads have been considered for this design.
 (2) Wind: ASCE 7-10; Vult=130mph Vast=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope)
 DOL=1.60
 (3) All plates are MT20 plates unless otherwise indicated.
 (4) This truss has been designed for a 1.0 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 3-6-0 tall by 2-0-0 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 134 lb uplift at joint 2 and 200 lb uplift at joint 11.

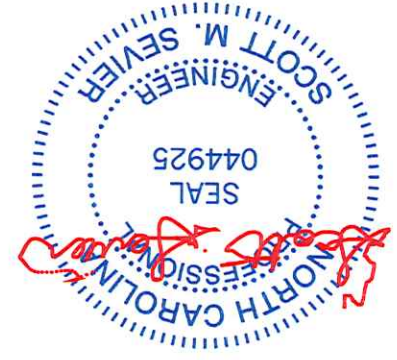
September 3, 2021

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

Design valid for use only with MTEK connectors. This design is based 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 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 ANSIP14 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2870 Crain Highway, Suite 203 Waldorf, MD 20601

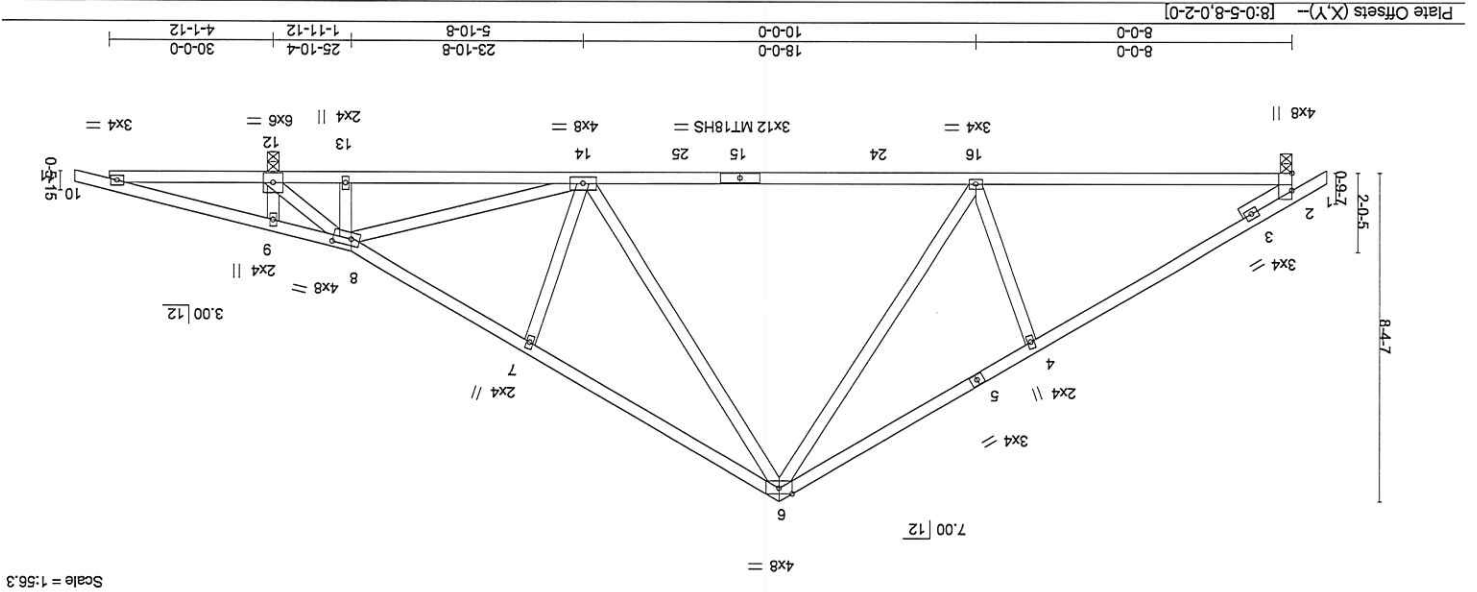
818 Soundside Road
 Edenton, NC 27932

TRENCO
 ENGINEERING BY
 A MITEK AFFILIATE



Job	28291-28291A
Truss	AE
Truss Type	GABLE
Qty	1
Ply	BIRCH PLAN - JRT
Job Reference (optional)	1

84 Components (Dunn), Dunn, NC - 28334, 8:52 s Aug 27 2021 Mitek Industries, Inc. Thu Sep 2 13:48:14 2021 Page 1
 ID:19gFtuslsmoRcZD1QEh4syE22-TJ5v2bLW7ddfdzodqod8_Bm1c0BTRgdFddRqLvyh6F
 0-10-8 6-7-4 13-0-0 6-4-12 6-4-4 19-4-4 23-10-8 4-6-4 25-10-4 30-0-0 30-10-8
 0-10-8 6-7-4 13-0-0 6-4-12 6-4-4 19-4-4 23-10-8 4-6-4 25-10-4 30-0-0 30-10-8



LOADING (psf)	SPACING-	CSI.	DEFL.	Vert(LL)	Vert(CT)	Horz(CT)	L/D	PLATES	GRIP	MT20	MT18HS	Weight: 157 lb	FT = 20%
20.0	2-0-0	0.74	in (loc)	-0.41	-0.66	0.04	12	240	197/144	197/144	197/144		
TCDL	Plate Grrp DOL	TC		>7.50	>4.72	n/a	n/a	180					
10.0	Lumber DOL	BC						180					
0.0 *	Rep Stress Incr	WB											
10.0	Code IRC2015/TP12014	Matix-MS											
BCLD													

LUMBER-	TOP CHORD	2x4 SPF No.2	2x4 SP No.3	SLIDER	Left 2x4 SP No.3	1-6-0
TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2			WEBS		
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2					

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horiz 2=204(LC 8)
 Max Uplift 2=134(LC 10), 12=201(LC 11)
 Max Grav 2=1057(LC 17), 12=1453(LC 1)

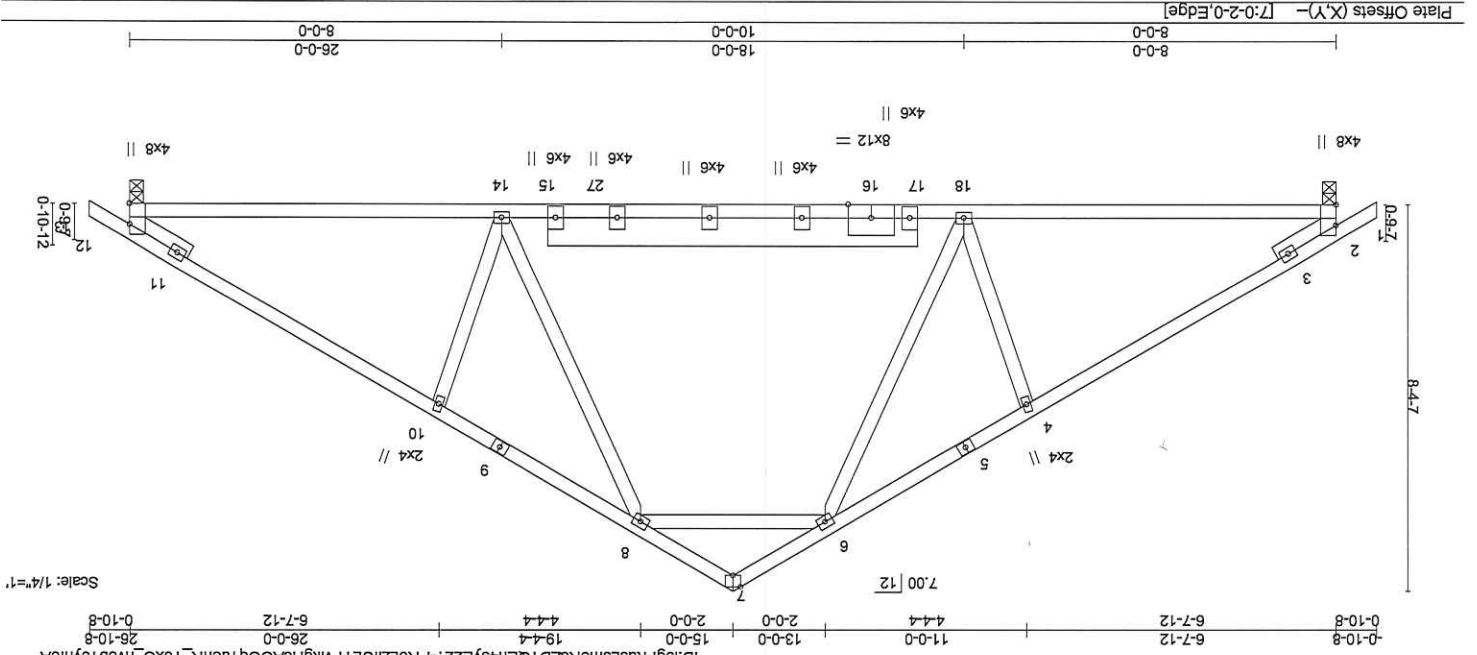
FORCES. (lb) - Max. Comp/Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 9-10=-265/620
 BOT CHORD 4-16=-342/249, 6-16=-152/690, 8-16=-14/609, 7-14=-364/228, 8-14=-132/542, 8-12=-1535/282, 9-12=275/127

NOTES-
 (1) Unbalanced roof live loads have been considered for this design.
 (2) Wind: ASCE 7-10; V_{ult}=130mph V_{asd}=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) DOL=1.60
 gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grp
 (3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSIT/TP1 1.
 (4) All plates are MT20 plates unless otherwise indicated.
 (5) Gable studs spaced at 2-0-0 oc.
 (6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 (7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 (8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 2 and 201 lb uplift at joint 12.



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 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, erection and bracing of trusses and truss systems, see ANSIT/TP1 Quality Criteria, DSB-69 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	28291-28291A	Truss	B	84 Components (Dunn), Dunn, NC - 28334,
Truss Type	ROOF TRUSS	Qty	6	Job Reference (optional)
		Ply	1	8520 s Aug 27 2021 Mitek Industries, Inc. Thu Sep 2 13:48:19 2021 Page 1
				ID:19gfrtmslsmoRcZD1OEH4syeE22?PR6LzifULYFvkHgHcAOOq1uenR_Toxo_nv8b16yh6A
				0-10-8 0-10-8 6-7-12 11-0-0 13-0-0 15-0-0 19-4-4 26-0-0 26-10-8
				0-10-8 6-7-12 4-4-4 2-0-0 2-0-0 4-4-4 7-00 12
				0-10-8 0-10-8 6-7-12 11-0-0 13-0-0 15-0-0 19-4-4 26-0-0 26-10-8



LOADING (psf)	SPACING- 2-0-0	CSL	DEFL	Vert(LL)	in (loc)	L/den	L/d	PLATES MT20	GRIP 197/144	Weight: 156 lb FT = 20%
20.0	2-0-0	0.67	-0.17	14-25	>999	240	180			
TCLL	Plate Grip DOL	TC	Vert(CT)	Horz(CT)	0.05	12	n/a			
TCDL	Lumber DOL	BC			-0.23	14-25	>999			
BCLL	Rep Stress Incr	WB			0.35	n/a	n/a			
BCDL	Code IRC2015/TFP12014	Matrx-MS								

LUMBER- TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2	BRACING- TOP CHORD	Structural wood sheathing directly applied or 3-4-13 oc purlins.
2x4 SP No.2 or 2x4 SPF No.2	2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 1-0-0-0 oc bracing.
15-17: 2x8 SP No.2	2x4 SP No.2 or 2x4 SPF No.2 *Except*		
WEBS	2x4 SP No.3		
SLIDER	Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0		

REACTIONS.	(size)	2-0-3-8, 12-0-3-8
Max Horz	2=200(LC 8)	
Max Uplift	2=-134(LC 11), 12=-134(LC 19)	
Max Grav	2=1101(LC 18), 12=1101(LC 19)	
FORCES.	(lb) - Max. Comp/Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-1499/272, 4-6=-1427/337, 8-10=-1426/337, 10-12=-1499/272	
BOT CHORD	2-18=-182/1355, 14-18=-54/1017, 12-14=-14/1205	
WEBS	8-14=-131/599, 10-14=-338/244, 6-18=-131/600, 4-18=-338/244, 6-8=-913/292	

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph; Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 1.0 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 3-6-0 tall by 2-0-0 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 134 lb uplift at joint 2 and 134 lb uplift at joint 12.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-173 rev. 5/19/2020 BEFORE USE.

Design valid for use only with Mitek connector. This design is based 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 ANSULP11 Quality Criteria, DSB-89 and BCSI Building Component available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

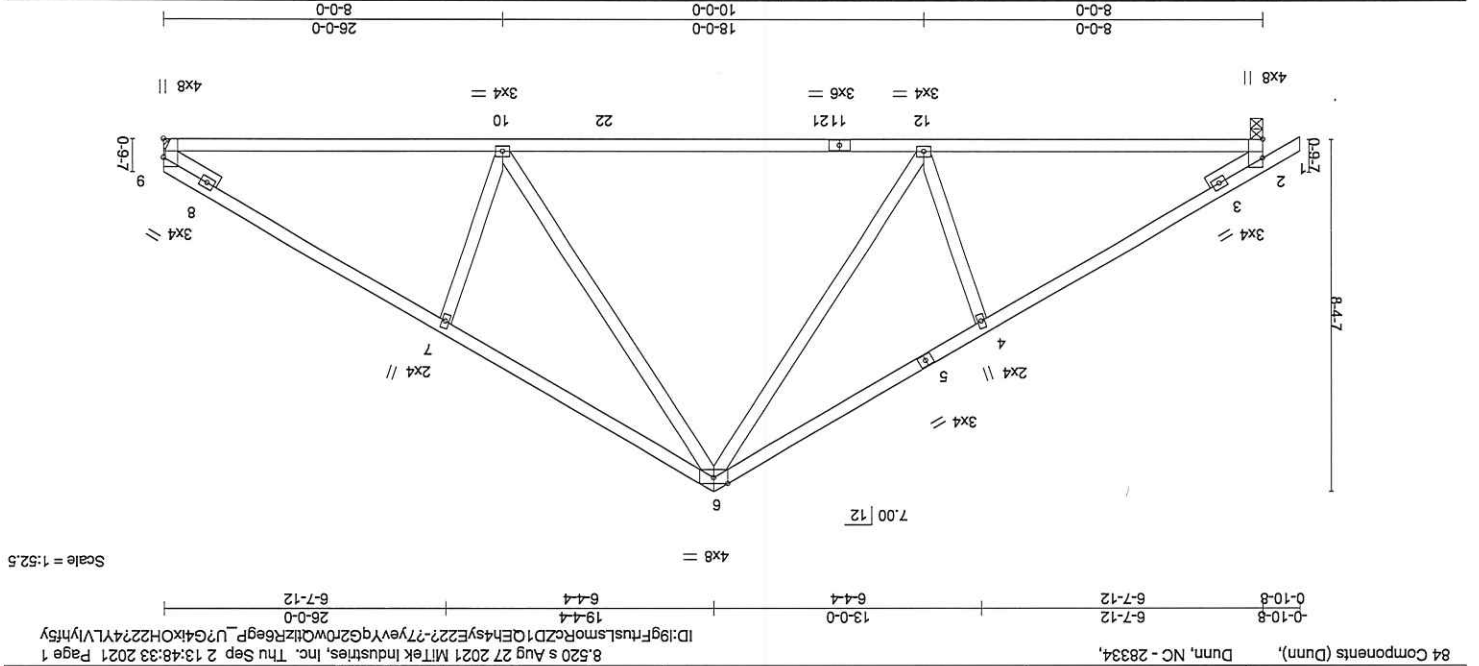
818 Soundside Road
Edenton, NC 27932

TRENCO
ENGINEERING BY
A Mitek Affiliate



September 3, 2021

Job	Truss	Truss Type	Common	Qty	5	1	Job Reference (optional)
28291-28291A	B1						8,520 s Aug 27 2021 MITTEK Industries, Inc. Thu Sep 2 13:48:33 2021 Page 1
ID:19gFtrusslsmoRcZD1QEh4syE227-77yevVqG2rhwQltzR6gP_U7G4xOHH2274LVlyh5y							
8 Components (Dunn), Dunn, NC - 28334, 6-7-12 13-00 6-44 6-44 6-7-12 26-00							
0-10-8 6-7-12 13-00 6-44 6-7-12 26-00							
0-9-7 6-7-12 26-00							



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	Weight: 130 lb FT = 20%
20.0	2-0-0	TC 0.79	Vert(LL)	-0.43	10-12	>728	MT20	197/144	
1.15	Plate Grip DOL	BC 0.87	Vert(CT)	-0.68	10-12	>460			
1.15	Lumber DOL	WB 0.27	Horz(CT)	0.06	9	n/a			
0.0	Rep Stress Incr	Matrx-MS				n/a			
10.0	Code IRC2015/TP12014								
0.0	YES								
10.0	BCLL								
10.0	BCLL								
10.0	BCLL								

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

REACTIONS.
 (size) 9=Mechanical, 2=0-3-8
 Max Horiz 2=196(LC 7)
 Max Uplift 9=-115(LC 11), 2=-134(LC 10)
 Max Grav 9=1039(LC 1), 2=1093(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1526/272, 4-6=-1458/357, 6-7=-1465/358, 7-9=-1533/272
 BOT CHORD 2-12=-194/1371, 10-12=-35/901, 9-10=-148/1237
 WEBS 6-10=-1557/05, 7-10=-341/249, 6-12=-156/694, 4-12=-338/249

NOTES-
 (1) Unbalanced roof live loads have been considered for this design.
 (2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) DOL=1.60
 (3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 (4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 (5) Refer to girder(s) for truss to truss connections.
 (6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 9 and 134 lb uplift at joint 2.

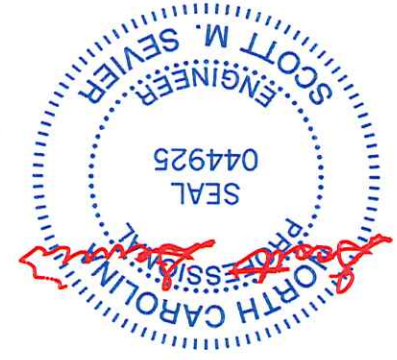
September 3, 2021

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

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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

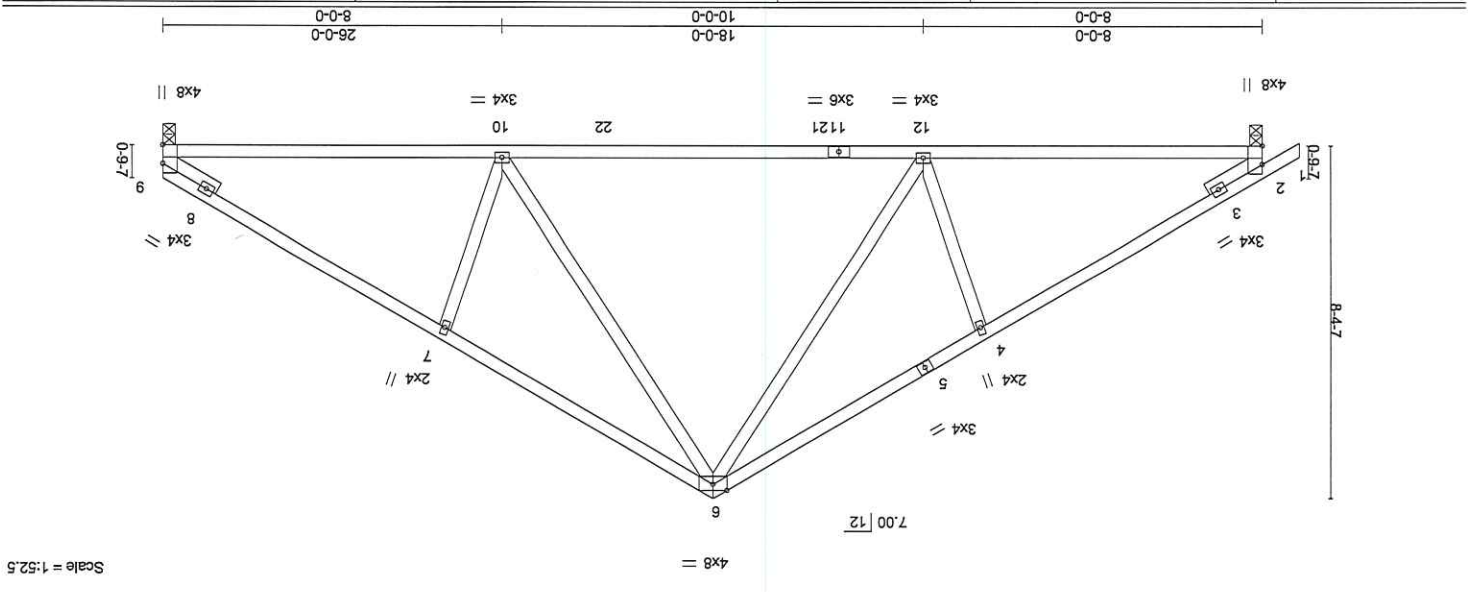
818 Soundside Road
 Edenton, NC 27932

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Job	Truss	Truss Type	Common	Qty	1	Ply	BIRCH PLAN - JRT	147752337
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84 Components (Dunn), Dunn, NC - 28334, 8.520 s Aug 27 2021 MITek Industries, Inc. Thu Sep 2 13:48:52 2021 Page 1
 ID:19gFrtuslsmoRcZD1QEH4syE22?xnbqu22BzHPDCoId2bU7g?mFTKBnLlNkXergyhF5f
 0-10-8 6-7-12 13-0-0 6-4-4 6-4-4 19-4-4 6-7-12 26-0-0



LOADING (psf)	TCLL	TCDL	Plate Grip DOL	Lumber DOL	Rep Stress Incr	Code IRC2015/TP12014	SPACING-	CSI,	DEFL.	in (loc)	L/d	L/d	GRIP	PLATES	Weight: 130 lb	FT = 20%
10.0	20.0	10.0	1.15	1.15	YES		2-0-0	0.79	0.06	9	n/a	n/a	197/144	MT20		
BCLL	0.0	0.0						0.27	-0.68	10-12	>460	180				
BCLD	10.0							0.87	-0.43	10-12	>728	240				

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
 BOT CHORD 9-11: 2x4 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

REACTIONS:
 (size) 9-0-3-8, 2-0-3-8
 Max Horiz 2=196(LC 7)
 Max Uplift 9=-115(LC 11), 2=-134(LC 10)
 Max Grav 9=1039(LC 1), 2=1093(LC 1)

FORCES:
 (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1526/272, 4-6=-1458/357, 6-7=-1465/358, 7-9=-1533/272
 BOT CHORD 2-12=-194/1371, 10-12=-35/901, 9-10=-148/1237
 WEBS 6-10=-155/705, 7-10=-341/249, 6-12=-156/694, 4-12=-338/249

NOTES-
 (1) Unbalanced roof live loads have been considered for this design.
 (2) Wind: ASCE 7-10; Vult=130mph Vast=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) DOL=1.60
 (3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 (4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 (5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 9 and 134 lb uplift at joint 2.

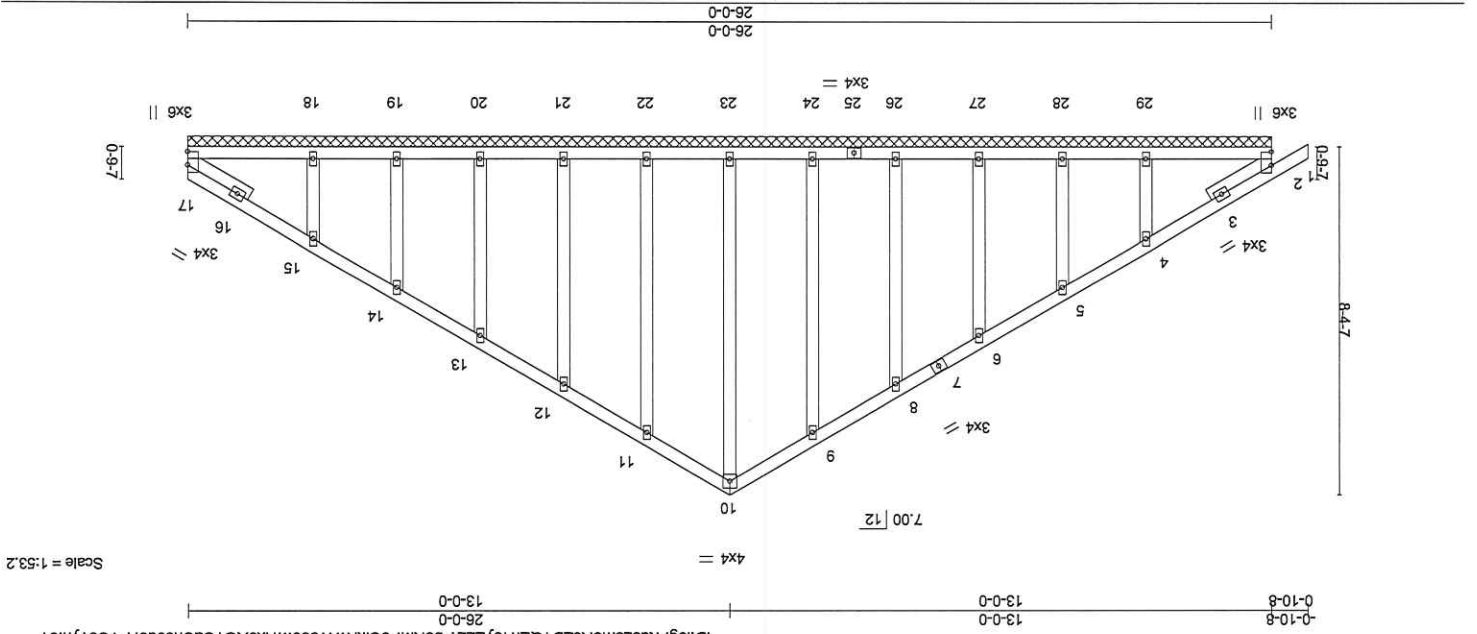
September 3, 2021

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 connector. This design is based 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 ANSITR11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Job	Truss	B1E	Dunn, NC - 28334,	84 Components (Dunn), Dunn, NC - 28334,	8520 s Aug 27 2021 Mitek Industries, Inc. Thu Sep 2 13:49:04 2021 Page 1 ID:19gfrtulsrmofczD1Qeh4syE227-b5KMP8cIKNwWecwITrx9XGTCaUn9JucFPYU57yh5T 26-0-0 13-0-0 13-0-0 0-10-8
28291-28291A	GABLE	1	Ply	BIRCH PLAN - JRT	147752338
				Job Reference (optional)	



LOADING (psf)	TCLL	20.0	PLATE GRIP DOL	1.15	TC	0.11	DEFL.	in (loc)	1	1/defl	L/d
TCDL	10.0 <td>Lumber DOL</td> <td>1.15 <td>BC</td> <td>0.06 <td>Vert(CT)</td> <td>-0.00</td> <td>1 <td>n/r</td> <td>120</td> <td>PLATES</td> </td></td></td>	Lumber DOL	1.15 <td>BC</td> <td>0.06 <td>Vert(CT)</td> <td>-0.00</td> <td>1 <td>n/r</td> <td>120</td> <td>PLATES</td> </td></td>	BC	0.06 <td>Vert(CT)</td> <td>-0.00</td> <td>1 <td>n/r</td> <td>120</td> <td>PLATES</td> </td>	Vert(CT)	-0.00	1 <td>n/r</td> <td>120</td> <td>PLATES</td>	n/r	120	PLATES
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	17	n/a	n/a	GRIP
BCDL	10.0	Code IRC2015/TP2014		Matrix-S							MT20

LUMBER-	TOP CHORD	2x4 SPF No.2	BRACING-	TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins.
BOT CHORD	2x4 SPF No.2	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 1'-0" oc bracing.	
OTHERS	2x4 SP No.3				
SLIDER	Left 2x4 SP No.3 1-8-12, Right 2x4 SP No.3 1-8-12				

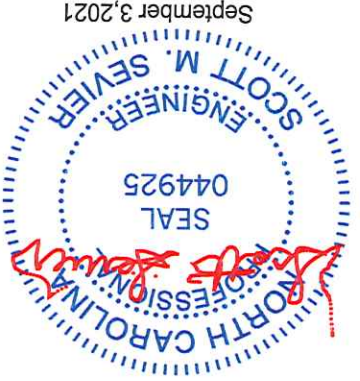
REACTIONS. (lb) - Max Horiz = 200(LC 7)
 All bearings 26-0-0.
 (lb) - Max Uplift All uplift 100 lb or less at joint(s) 2, 24, 26, 27, 28, 22, 21, 20, 19 except 29=-117(LC 10), 18=-111(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 17, 2, 23, 24, 26, 27, 28, 22, 21, 20, 19 except 29=257(LC 17), 18=257(LC 18)

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

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=103mph; Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 4) All plates are 2x4 MT20 unless otherwise indicated.
 5) Gable requires continuous bottom chord bearing.
 6) Gable studs spaced at 2'-0" oc.
 7) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 24, 26, 27, 28, 22, 21, 20, 19 except (f=lb) 29=117, 18=111.

Design valid for use only with Mitek connectors. This design is based 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, erection and bracing of trusses and truss systems, see ANSITP1 Quality Criteria, DSB-69 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

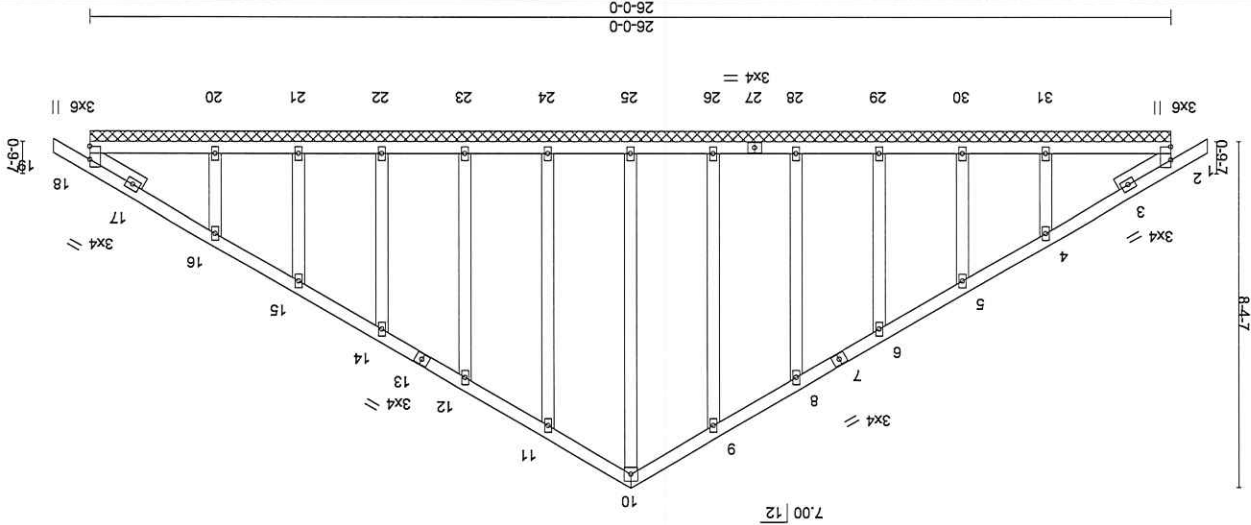
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-473 REV. 5/19/2020 BEFORE USE.
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 818 Soundside Road
 Eden, NC 27932



September 3, 2021

Job	28291-28291A	BE	Truss	Common Supported Gable	Qty	1	Ply	BIRCH PLAN - JRT	147752339
84 Components (Dunn), Dunn, NC - 28334, ID:19gFtruslsmoRcZD1QEH4sye22?-qFhdgCGTKRDgNz445NpLPowUjXCZ1VWK7oJfYh5N 8.520 s Aug 27 2021 Mitek Industries, Inc. Thu Sep 2 13:49:10 2021 Page 1									

0-10-8	13-0-0	13-0-0	13-0-0	26-0-0	26-10-8
Scale = 1:5.3					



LOADING (psf)	TCLL	TCDL	PLATE GRIP DOL	SPACING-	CSI,	DEFL.	in (loc)	L/d	PLATES	GRIP	Weight: 167 lb	FT = 20%
20.0	20.0	10.0	1.15	2-0-0	0.10	0.00	19	120	MT20	197/144		
BCLL	0.0	0.0	1.15	Code IRC2015/TP12014	0.20	0.01	18	n/a				
BCLD	10.0	10.0	1.15	Rep Stress Incr	0.06	0.00	19	n/a				

LUMBER-	TOP CHORD	BOT CHORD	BRACING-
2x4 SP No.2 or 2x4 SPF No.2	2x4 SP No.2 or 2x4 SPF No.2	2x4 SP No.3	Structural wood sheathing directly applied or 6-0-0 oc purlins.
OTHERS	2x4 SP No.3		
SLIDER	Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0		

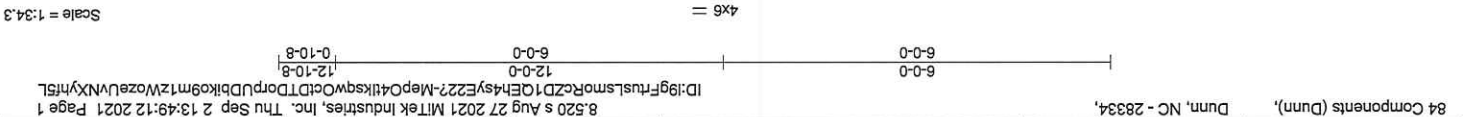
REACTIONS. (lb) - Max Horiz = 200(LC 8)
 All bearings 26-0-0.
 Max Uplift All uplift 100 lb or less at joint(s) 2, 26, 28, 29, 30, 24, 23, 22, 21, 18 except 31=118(LC 10), 20=108(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 2, 25, 26, 28, 29, 30, 24, 23, 22, 21, 20, 18 except 31=259(LC 17)

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

NOTES-
 (1) Unbalanced roof live loads have been considered for this design.
 (2) Wind: ASCE 7-10; V_{ult}=130mph V_{asd}=103mph; TC_{DL}=6.0psf; B_{CDL}=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
 (3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSIT/P1.
 (4) All plates are 2x4 MT20 unless otherwise indicated.
 (5) Gable requires continuous bottom chord bearing.
 (6) Gable studs spaced at 2-0-0 oc.
 (7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 (8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 (9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 26, 28, 29, 30, 24, 23, 22, 21, 18 except (I=lb) 31=118, 20=108.

September 3, 2021

Job	28291-28291A	Truss	C	Common	Qty	1	Ply	BIRCH PLAN - JRT	Job Reference (optional)
8,520 s Aug 27 2021 MITTEK Industries, Inc. Thu Sep 2 13:49:12 2021 Page 1									
ID:19gFtustslsmoRcZD1qEH4syE227-MepO4tksqwCpDTPopUBdko9m1zwozeLVNkyh5L									
12-10-8 6-0-0 6-0-0 12-0-0 6-0-0 0-10-8									



LOADING (psf)	SPACING	PLATE GRIP DOL	TC	CSI	DEFL	Vert(LL)	Vert(CT)	Horz(CT)	BRACING-	TOP CHORD	BOT CHORD
20.0	2-0-0	2-0-0	0.58	Matix-MS	in	(loc)	l/defl	L/d	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	TOP CHORD	BOT CHORD
TCLL									Rigid ceiling directly applied or 10-0-0 oc bracing.		
TCDL											
BCLL											
BCDL	10.0	Code IRC2015/TP12014	WB	0.09	0.00	0.00	5	n/a			

REACTIONS	WBS	TOP CHORD	BOT CHORD	FORCES
(size) 7-0-3-8, 5-0-3-8	2x4 SP No.3	2x4 SP No.2 or 2x4 SPF No.2	2x4 SP No.2	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
Max Horiz 7=-12(LC 8)				1-2=-480/105, 2-3=-487/111, 1-7=-414/114, 3-5=-480/162
Max Uplift 7=43(LC 10), 5=65(LC 11)				6-7=-156/295, 5-6=-148/315
Max Grav 7=46(LC 1), 5=53(LC 1)				

NOTES-

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

(2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDDL=6.0psf; BCDDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) DOL=1.60

(3) This truss has been designed for a 1.0 psf bottom chord live load nonconcurrent with any other live loads.

(4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

(5) Bearing at joint(s) 7, 5 considers parallel to grain value using ANSIT/P1 1 angle to grain formula. Building designer should verify capacity of bearing surface.

(6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.



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September 3, 2021

Job	Truss	CGR	Dunn, NC - 28334,	84 Components (Dunn),
147752342	Common Girder	2	Job Reference (optional)	
1	Ply	BIRCH PLAN - JRT		

8,520 s Aug 27 2021 MITTEK Industries, Inc. Thu Sep 2 13:49:28 2021 Page 1
 ID:19gFrtuslsmoRcZD1QEh4syE22?ujnRRLUm5bX7XKSX997Z7bFVTFa6n3888f8Mlycyh55

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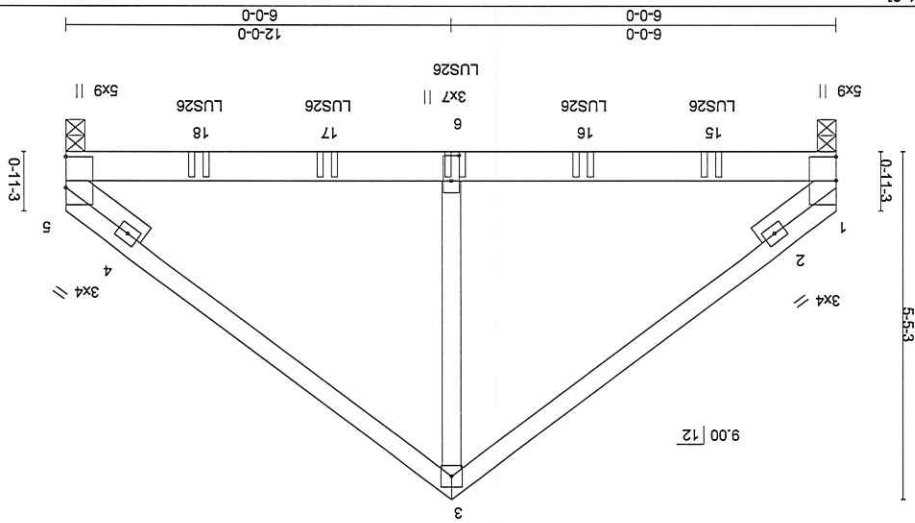


Plate Offsets (X,Y) - [6:0-4:12,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	Vert(LL)	Vert(CT)	Horz(CT)	Mathx-MS	BRACING
20.0	2-0-0	TC 0.34	in (10c)	-0.04	6-13	>999	240	L/D
10.0	1.15	BC 0.40	in (10c)	-0.08	6-13	>999	180	L/D
10.0	NO	WB 0.69	in (10c)	0.01	6-13	>999	180	L/D
BCDL 10.0	Code IRC2015/TP12014							n/a

LUMBER	TOP CHORD	TOP CHORD	BRACING
2x4 SP No.2 or 2x4 SPF No.2	Structural wood sheathing directly applied or 6-0-0 oc purlins.	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
2x6 SP DSS	TOP CHORD	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
2x4 SP No.3	WEBS		
Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0	SLIDER		

REACTIONS	FORCES
(size) 1=0-3-8, 5=3-8	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
Max Horiz 1=-111(LC 25)	TOP CHORD 1-3=-3029/434, 3-5=-3029/434
Max Uplift 1=-367(LC 8), 5=-361(LC 9)	BOT CHORD 1-6=-278/2423, 5-6=-278/2423
Max Grav 1=3049(LC 1), 5=3007(LC 1)	WEBS 3-6=-382/3326

NOTES-
 (1) 2-ply truss to be connected together with 16d (0.131" x 3.5") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc clinched.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc clinched.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc clinched.
 (2) All loads are considered equally applied to all plies, except fit 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.
 (3) Unbalanced roof live loads have been considered for this design.
 (4) Wind: ASCE 7-10; Vult=130mph Vasd=130mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp. B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 (5) This truss has been designed for a live load of 20.0psf on the bottom chord live load nonconcurrent with any other live loads.
 (6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 (7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except fit=lb) 1-367, 5=361.
 (8) Use Simpson Strong-Tie LUS26 (4-10d Truss) or equivalent spaced at 2-0-0 oc max, starting at 1-11-4 from the left end to 9-1-4 to connect truss(es) to back face of bottom chord.
 (9) Fill all nail holes where hanger is in contact with lumber.
LOAD CASE(S) Standard
 (1) Dead + Roof Live (balanced): Lumber increase=1.15, Plate increase=1.15
 Uniform Loads (psf)
 Vert: 1-3=60, 3-5=60, 7-11=20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-773 rev. 5/19/2020 BEFORE USE.
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September 3, 2021

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
28291-28291A	CGR	Common Girder	1		BIRCH PLAN - JRT
					2

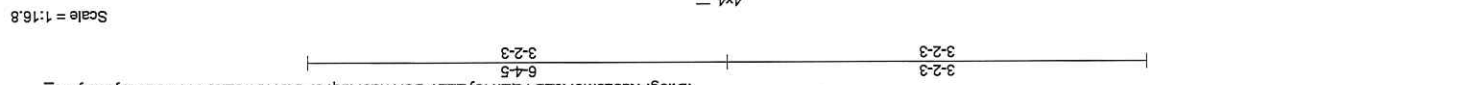
84 Components (Dunn), Dunn, NC - 28334, 8.520 s Aug 27 2021 MITTEK Industries, Inc. Thu Sep 2 13:49:28 2021 Page 2
 ID:19gFrtuslsmoRcZD1qEh4syE22?-ujnRRLUmsk7XKSX97Z7bVTFa6n388f8Mlycyht55

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 6=-1019(B) 15=-1019(B) 16=-1019(B) 17=-1019(B) 18=-1019(B)

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 Design valid for use only with MITTEK® 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 to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabricator, erection and bracing of trusses and truss systems, see ANSITP1 Quality Criteria, DSB-49 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Job Reference (optional)
28291-28291A	V2	Valley	1	BIRCH PLAN - JRT
84 Components (Dunn), Dunn, NC - 28334, 8.520 s Aug 27 2021 MITTEK Industries, Inc. Thu Sep 2 13:49:35 2021 Page 1				
ID:19gFtrusslsmoRcZD1Qeh4syE22?-B3i4wa9Rudq7sPur37iCw32k041?w0DA6jzdhiyh5_				



LOADING (psf)	SPACING-	CSI.	DEFL.	VERT(LL)	VERT(CT)	Horz(CT)	BRACING-	TOP CHORD	2x4 SP No.3	OTHERS	2x4 SP No.3
TCLL 20.0	Plate Grp DOL 1.15	TC 0.23	in (loc)	n/a	n/a	0.00	TOP CHORD	2x4 SP No.3	TOP CHORD	2x4 SP No.3	
TCDL 10.0	Lumber DOL 1.15	BC 0.13	in (oc)	n/a	n/a	3	Structural wood sheathing directly applied or 6-0 oc purlins.	2x4 SP No.3	BOT CHORD	2x4 SP No.3	
BCLL 0.0	Rep Stress Incr YES	WB 0.03					Rigid ceiling directly applied or 10-0 oc bracing.				
BCDL 10.0	Code IRC2015/TP12014	Mathx-P									

REACTIONS. (size) 1=6-3-11, 3=6-3-11, 4=6-3-11
 Max Horz 1=51(LC 6)
 Max Uplift 1=26(LC 10), 3=33(LC 11)
 Max Grav 1=121(LC 1), 3=121(LC 1), 4=197(LC 1)

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

NOTES-
 (1) Unbalanced roof live loads have been considered for this design.
 (2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope)
 (3) Gable requires continuous bottom chord bearing.
 (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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 3.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MITTEK connectors. This design is based 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 and to prevent buckling with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road
 Edenon, NC 27932
TRENCO
 ENGINEERING BY
 A MITTEK AFFILIATE

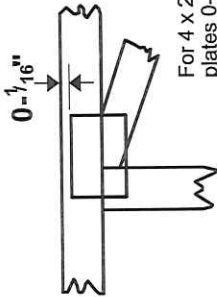
September 3, 2021

SCOTT M. SEEVER
 ENGINEER
 SEAL
 044925
 NORTH CAROLINA PROFESSIONAL ENGINEER

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.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

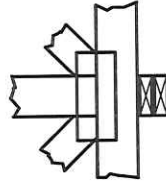
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

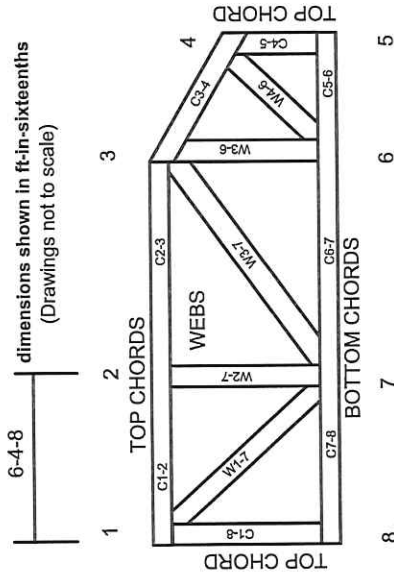


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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: MIL-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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