

RE: 3095750 - H&H, Roosevelt (B_1), B, Lot 70, OAKMONT

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Project Customer: H and H Project Name:
Lot/Block: 70 Subdivision: OAKMONT
Address:
City: LILLINGTON State: NC

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:
Address:
City, County: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: N/A Design Method: N/A
Wind Speed: N/A mph
Roof Load: N/A psf Floor Load: N/A psf

This package includes 1 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Job ID#	Truss Name	Date
1	155167660	3095750		11/10/22

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Gilbert, Eric
My license renewal date for the state of North Carolina is December 31, 2022.

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.



November 10, 2022

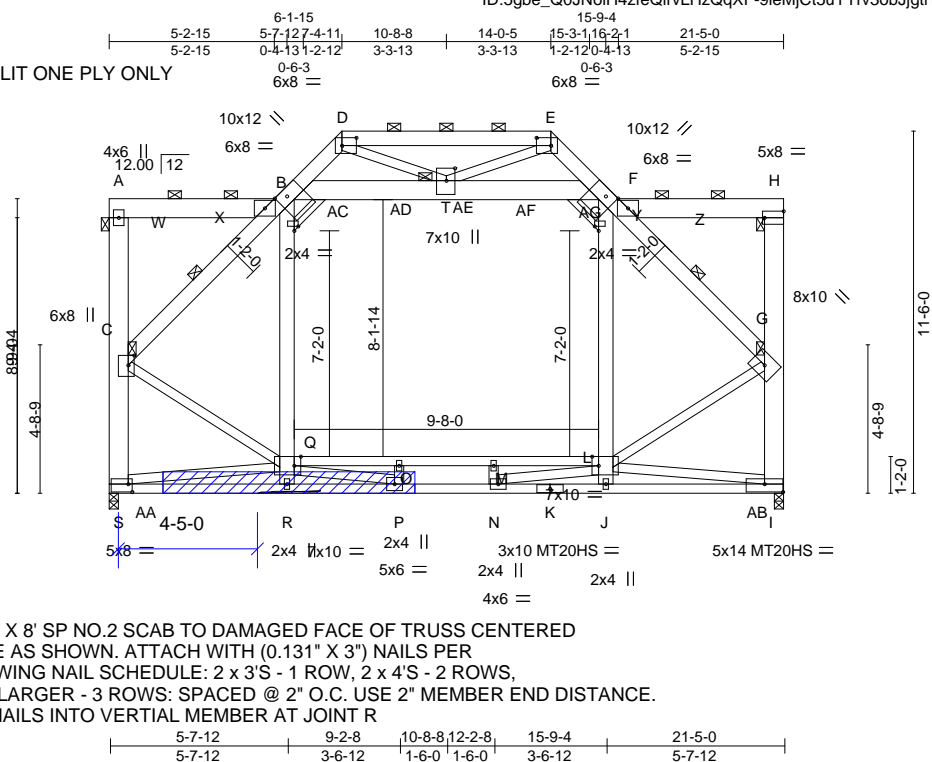
Gilbert, Eric

Job 3095750	Truss C03	Truss Type Attic Girder	Qty 1	Ply 2	H&H, Roosevelt (B_1), B, Lot 70, OAKMONT	155167660
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Builders FirstSource (Sumter, SC), Sumter, SC - 29153, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Nov 8 15:31:29 2022 Page 1
 ID:5gbe_QQNoiH4zfeQirvLHzQqXF-9leMjCt5uYTrv3obJjgtlTNWzfaZBaE19BHRS9yLCLC

REPAIR: TRUSS MEMBER(S-P) SPLIT ONE PLY ONLY
 2-0-0 LONG GOES 0-1-0 UP

Scale = 1:73.2




 APPLY 2 X 8 X 8' SP NO.2 SCAB TO DAMAGED FACE OF TRUSS CENTERED ON DAMAGE AS SHOWN. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS, 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE. ENSURE 3 NAILS INTO VERTICAL MEMBER AT JOINT R

Plate Offsets (X,Y)--	[B:0-2-12,Edge], [C:0-3-12,0-2-4], [D:0-5-8,0-3-0], [E:0-5-8,0-3-0], [F:0-2-12,Edge], [H:Edge,0-2-8], [I:0-7-0,0-3-0], [L:0-2-8,Edge], [Q:0-2-8,Edge], [S:0-1-8,0-3-0], [T:0-4-12,0-3-4], [U:0-1-8,0-1-12], [V:0-1-8,0-1-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.95	Vert(LL)	-0.22	L-M	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.28	L-M	>897	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.84	Horz(CT)	0.02	l	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.25	J-N	>987		Weight: 645 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* A-B,F-H: 2x8 SP DSS, B-U,F-V: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): A-B, B-C, D-E, F-G, F-H. Except: 1 Row at midpt B-C, F-G
BOT CHORD 2x4 SP No.2 *Except* K-S: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 5-9-5 oc bracing.
WEBS 2x4 SP No.3 *Except* A-S,H-I,B-F: 2x8 SP DSS, B-R,F-J: 2x6 SP No.2 C-Q,G-L,P-Q,L-N: 2x4 SP No.2	WEBS 1 Row at midpt A-S, H-I
	JOINTS 1 Brace at Jt(s): A, H, T

REACTIONS. (size) S=0-3-8 (req. 0-5-9), I=0-3-8 (req. 0-6-7)
 Max Horz S=-1105(LC 23)
 Max Uplift S=-2122(LC 19), I=-2319(LC 22)
 Max Grav S=9384(LC 15), I=10909(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD C-S=-9335/2416, A-C=-1538/478, A-B=-636/608, B-C=-7110/2063, B-D=-2531/758,
 D-E=-5481/1193, E-F=-2741/799, F-G=-7383/2123, F-H=-650/603, G-I=-10311/2577,
 G-H=-2030/554
 BOT CHORD R-S=-3572/3252, P-R=-3978/3489, N-P=-91/3572, J-N=-3479/3951, I-J=-3086/3621,
 O-Q=-873/1800, M-O=-873/1800, L-M=-873/1800
 WEBS Q-R=0/411, B-Q=-1168/834, J-L=0/403, F-L=-2566/1044, B-T=-3984/1012, F-T=-3484/946,
 D-T=-1643/4625, E-T=-1518/4002, Q-S=-1405/1733, C-Q=-1902/5754, G-L=-1950/6159,
 I-L=-2905/2376, O-P=-899/346, M-N=-565/366, P-Q=-2922/5936, L-N=-3108/4282

- NOTES-** (18)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-2-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - 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 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.



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

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H, Roosevelt (B_1), B, Lot 70, OAKMONT
3095750	C03	Attic Girder	1	2	155167660

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Nov 8 15:31:30 2022 Page 2
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-dyCkxYujfsbiXDMntQB6Hghwj3wCw1UAOr1?OcyLCLB

NOTES- (18)

- 6) All plates are MT20 plates unless otherwise indicated.
- 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) Ceiling dead load (5.0 psf) on member(s). B-T, F-T; Wall dead load (5.0psf) on member(s).B-Q, F-L
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. O-Q, M-O, L-M
- 11) WARNING: Required bearing size at joint(s) S, I greater than input bearing size.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) S=2122, I=2319.
- 13) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 14) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-0-0, 20-5-0 to 21-5-0 for 1071.0 plf.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.
- 17) Attic room checked for L/360 deflection.
- 18) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-D=-60, D-E=-60, E-F=-60, F-H=-60, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Drag: B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=-670 W=-670 X=-670 Y=-1230 Z=-1230 AC=-640(B) AD=-640(B) AE=-640(B) AF=-640(B) AG=-1233(B)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-50, B-D=-50, D-E=-50, E-F=-50, F-H=-50, I-S=-65(F=-45), L-Q=-135(F=-45), B-F=-10
Drag: B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=-1089 W=-1089 X=-1089 Y=-1999 Z=-1999 AC=-1040(B) AD=-1040(B) AE=-1040(B) AF=-1040(B) AG=-2004(B)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: A-B=-20, B-D=-20, D-E=-20, E-F=-20, F-H=-20, I-S=-55(F=-15), L-Q=-45(F=-15), B-F=-10
Drag: B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=-503 W=-503 X=-503 Y=-923 Z=-923 AC=-480(B) AD=-480(B) AE=-480(B) AF=-480(B) AG=-925(B)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=36, B-D=-14, D-E=36, E-F=22, F-H=19, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=21, A-C=21, A-B=-48, B-D=2, E-F=34, F-H=31, G-I=31, G-H=31
Drag: B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=19, B-D=22, D-E=36, E-F=-14, F-H=36, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=-31, A-C=-31, A-B=-31, B-D=-34, E-F=-2, F-H=48, G-I=-21, G-H=-21
Drag: B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=8, B-D=-42, D-E=8, E-F=-6, F-H=-9, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Horz: C-S=41, A-C=41, A-B=-28, B-D=22, E-F=14, F-H=11, G-I=11, G-H=11
Drag: B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=-679 W=-679 X=-679 Y=-1247 Z=-1247 AC=-649(B) AD=-649(B) AE=-649(B) AF=-649(B) AG=-1250(B)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=-9, B-D=-6, D-E=8, E-F=-42, F-H=8, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Horz: C-S=-11, A-C=-11, A-B=-11, B-D=-14, E-F=-22, F-H=28, G-I=-41, G-H=-41
Drag: B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=-516 W=-516 X=-516 Y=-948 Z=-948 AC=-493(B) AD=-493(B) AE=-493(B) AF=-493(B) AG=-950(B)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=36, B-D=36, D-E=19, E-F=19, F-H=19, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=12, A-C=12, A-B=-48, B-D=48, E-F=31, F-H=31, G-I=26, G-H=26
Drag: B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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LOAD CASE(S) Standard

- Uniform Loads (plf)
 Vert: A-B=19, B-D=19, D-E=19, E-F=36, F-H=36, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
 Horz: C-S=-26, A-C=-26, A-B=-31, B-D=-31, E-F=48, F-H=48, G-I=-12, G-H=-12
 Drag: B-Q=-10, F-L=-10
- Concentrated Loads (lb)
 Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: A-B=36, B-D=36, D-E=19, E-F=19, F-H=19, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
 Horz: C-S=12, A-C=12, A-B=-48, B-D=-48, E-F=31, F-H=31, G-I=26, G-H=26
 Drag: B-Q=-10, F-L=-10
- Concentrated Loads (lb)
 Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: A-B=19, B-D=19, D-E=19, E-F=36, F-H=36, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
 Horz: C-S=-26, A-C=-26, A-B=-31, B-D=-31, E-F=48, F-H=48, G-I=-12, G-H=-12
 Drag: B-Q=-10, F-L=-10
- Concentrated Loads (lb)
 Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: A-B=8, B-D=8, D-E=-9, E-F=-9, F-H=-9, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
 Horz: C-S=32, A-C=32, A-B=-28, B-D=-28, E-F=11, F-H=11, G-I=6, G-H=6
 Drag: B-Q=-10, F-L=-10
- Concentrated Loads (lb)
 Vert: B=605 W=605 X=605 Y=-1110 Z=-1110 AC=-578(B) AD=-578(B) AE=-578(B) AF=-578(B) AG=-1113(B)
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: A-B=-9, B-D=-9, D-E=-9, E-F=8, F-H=8, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
 Horz: C-S=-6, A-C=-6, A-B=-11, B-D=-11, E-F=28, F-H=28, G-I=-32, G-H=-32
 Drag: B-Q=-10, F-L=-10
- Concentrated Loads (lb)
 Vert: B=419 W=419 X=419 Y=-769 Z=-769 AC=-400(B) AD=-400(B) AE=-400(B) AF=-400(B) AG=-771(B)
- 14) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: A-B=-20, B-D=-20, D-E=-20, E-F=-20, F-H=-20, I-S=-75(F=-55), L-Q=-165(F=-55), B-F=-10
 Drag: B-Q=-10, F-L=-10
- Concentrated Loads (lb)
 Vert: B=-1005 W=-1005 X=-1005 Y=-1845 Z=-1845 AC=-960(B) AD=-960(B) AE=-960(B) AF=-960(B) AG=-1850(B)
- 15) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: A-B=-29, B-D=-66, D-E=-29, E-F=-40, F-H=-42, I-S=-65(F=-45), L-Q=-135(F=-45), B-F=-10
 Horz: C-S=31, A-C=31, A-B=-21, B-D=16, E-F=10, F-H=8, G-I=8, G-H=8
 Drag: B-Q=-10, F-L=-10
- Concentrated Loads (lb)
 Vert: B=-1347 W=-1347 X=-1347 Y=-2473 Z=-2473 AC=-1287(B) AD=-1287(B) AE=-1287(B) AF=-1287(B) AG=-2479(B)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: A-B=-42, B-D=-40, D-E=-29, E-F=-66, F-H=-29, I-S=-65(F=-45), L-Q=-135(F=-45), B-F=-10
 Horz: C-S=-8, A-C=-8, A-B=-8, B-D=-10, E-F=-16, F-H=21, G-I=-31, G-H=-31
 Drag: B-Q=-10, F-L=-10
- Concentrated Loads (lb)
 Vert: B=-1225 W=-1225 X=-1225 Y=-2249 Z=-2249 AC=-1170(B) AD=-1170(B) AE=-1170(B) AF=-1170(B) AG=-2254(B)
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: A-B=-29, B-D=-29, D-E=-42, E-F=-42, F-H=-42, I-S=-65(F=-45), L-Q=-135(F=-45), B-F=-10
 Horz: C-S=24, A-C=24, A-B=-21, B-D=-21, E-F=8, F-H=8, G-I=5, G-H=5
 Drag: B-Q=-10, F-L=-10
- Concentrated Loads (lb)
 Vert: B=-1291 W=-1291 X=-1291 Y=-2370 Z=-2370 AC=-1233(B) AD=-1233(B) AE=-1233(B) AF=-1233(B) AG=-2376(B)
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: A-B=-42, B-D=-42, D-E=-42, E-F=-29, F-H=-29, I-S=-65(F=-45), L-Q=-135(F=-45), B-F=-10
 Horz: C-S=-5, A-C=-5, A-B=-8, B-D=-8, E-F=21, F-H=21, G-I=-24, G-H=-24
 Drag: B-Q=-10, F-L=-10
- Concentrated Loads (lb)
 Vert: B=-1152 W=-1152 X=-1152 Y=-2114 Z=-2114 AC=-1100(B) AD=-1100(B) AE=-1100(B) AF=-1100(B) AG=-2119(B)
- 19) Dead + 0.6 MWFRS Wind (Pos. Internal) Left + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
 Uniform Loads (plf)
 Vert: A-B=43, B-D=92, D-E=36, E-F=-84, F-H=11, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
 Horz: C-S=21, A-C=21, A-B=1362, B-D=97, E-F=129, F-Y=1440, H-Y=1440, G-I=31, G-H=31
 Drag: D-E=100, S-AA=-1071, I-AB=-1071, B-Q=-10, F-L=-10
- Concentrated Loads (lb)
 Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 20) Dead + 0.6 MWFRS Wind (Pos. Internal) Left + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H, Roosevelt (B_1), B, Lot 70, OAKMONT
3095750	C03	Attic Girder	1	2	155167660

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Nov 8 15:31:30 2022 Page 4
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-dyCkxYujfsbiXDMntQB6Hgwj3wCw1UAOr1?OcyLCLB

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: A-B=29, B-D=-119, D-E=36, E-F=127, F-H=26, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=21, A-C=21, A-B=-1458, B-D=-93, E-F=-61, F-Y=-1379, H-Y=-1379, G-I=31, G-H=31
Drag: D-E=-100, S-AA=1071, I-AB=1071, B-Q=-10, F-L=-10
- Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 21) Dead + 0.6 MWFRS Wind (Pos. Internal) Right + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=26, B-D=127, D-E=36, E-F=-119, F-H=29, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=-31, A-C=-31, A-B=1379, B-D=61, E-F=93, F-Y=1458, H-Y=1458, G-I=-21, G-H=21
Drag: D-E=100, S-AA=-1071, I-AB=-1071, B-Q=-10, F-L=-10
- Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 22) Dead + 0.6 MWFRS Wind (Pos. Internal) Right + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=11, B-D=-84, D-E=36, E-F=92, F-H=43, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=-31, A-C=-31, A-B=-1440, B-D=-129, E-F=-97, F-Y=-1362, H-Y=-1362, G-I=-21, G-H=-21
Drag: D-E=-100, S-AA=1071, I-AB=1071, B-Q=-10, F-L=-10
- Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 23) Dead + 0.6 MWFRS Wind (Neg. Internal) Left + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=15, B-D=64, D-E=8, E-F=-112, F-H=-17, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Horz: C-S=41, A-C=41, A-B=1382, B-D=117, E-F=109, F-Y=1420, H-Y=1420, G-I=11, G-H=11
Drag: D-E=100, S-AA=-1071, I-AB=-1071, B-Q=-10, F-L=-10
- Concentrated Loads (lb)
Vert: B=679 W=679 X=679 Y=-1247 Z=-1247 AC=-649(B) AD=-649(B) AE=-649(B) AF=-649(B) AG=-1250(B)
- 24) Dead + 0.6 MWFRS Wind (Neg. Internal) Left + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=1, B-D=-147, D-E=8, E-F=99, F-H=-2, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Horz: C-S=-41, A-C=-41, A-B=-1438, B-D=-73, E-F=-81, F-Y=-1399, H-Y=-1399, G-I=11, G-H=11
Drag: D-E=-100, S-AA=1071, I-AB=1071, B-Q=-10, F-L=-10
- Concentrated Loads (lb)
Vert: B=679 W=679 X=679 Y=-1247 Z=-1247 AC=-649(B) AD=-649(B) AE=-649(B) AF=-649(B) AG=-1250(B)
- 25) Dead + 0.6 MWFRS Wind (Neg. Internal) Right + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=-2, B-D=99, D-E=8, E-F=-147, F-H=1, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Horz: C-S=-11, A-C=-11, A-B=1399, B-D=81, E-F=73, F-Y=1438, H-Y=1438, G-I=-41, G-H=-41
Drag: D-E=100, S-AA=-1071, I-AB=-1071, B-Q=-10, F-L=-10
- Concentrated Loads (lb)
Vert: B=516 W=516 X=516 Y=-948 Z=-948 AC=-493(B) AD=-493(B) AE=-493(B) AF=-493(B) AG=-950(B)
- 26) Dead + 0.6 MWFRS Wind (Neg. Internal) Right + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=-17, B-D=-112, D-E=8, E-F=64, F-H=15, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Horz: C-S=-11, A-C=-11, A-B=-1420, B-D=-109, E-F=-116, F-Y=-1382, H-Y=-1382, G-I=-41, G-H=-41
Drag: D-E=-100, S-AA=1071, I-AB=1071, B-Q=-10, F-L=-10
- Concentrated Loads (lb)
Vert: B=516 W=516 X=516 Y=-948 Z=-948 AC=-493(B) AD=-493(B) AE=-493(B) AF=-493(B) AG=-950(B)
- 27) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=43, B-D=142, D-E=19, E-F=-87, F-H=11, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=12, A-C=12, A-B=1362, B-D=47, E-F=125, F-Y=1440, H-Y=1440, G-I=26, G-H=26
Drag: D-E=100, S-AA=-1071, I-AB=-1071, B-Q=-10, F-L=-10
- Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 28) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=29, B-D=-69, D-E=19, E-F=124, F-H=26, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=12, A-C=12, A-B=-1458, B-D=-143, E-F=-64, F-Y=-1379, H-Y=-1379, G-I=26, G-H=26
Drag: D-E=-100, S-AA=1071, I-AB=1071, B-Q=-10, F-L=-10
- Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 29) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=26, B-D=124, D-E=19, E-F=-69, F-H=29, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=-26, A-C=-26, A-B=1379, B-D=64, E-F=143, F-Y=1458, H-Y=1458, G-I=-12, G-H=-12
Drag: D-E=100, S-AA=-1071, I-AB=-1071, B-Q=-10, F-L=-10
- Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 30) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=11, B-D=-87, D-E=19, E-F=142, F-H=43, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=-26, A-C=-26, A-B=-1440, B-D=-125, E-F=-47, F-Y=-1362, H-Y=-1362, G-I=-12, G-H=-12
Drag: D-E=-100, S-AA=1071, I-AB=1071, B-Q=-10, F-L=-10
- Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)

Continued on page 5

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H, Roosevelt (B_1), B, Lot 70, OAKMONT
3095750	C03	Attic Girder	1	2	155167660

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Nov 8 15:31:30 2022 Page 5
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-dyCkxYujfsbiXDMntQB6Hghwj3wCw1UAOr1?OcyLCLB

LOAD CASE(S) Standard

- 31) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=43, B-D=142, D-E=19, E-F=87, F-H=11, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=12, A-C=12, A-B=1362, B-D=47, E-F=125, F-Y=1440, H-Y=1440, G-I=26, G-H=26
Drag: D-E=100, S-AA=-1071, I-AB=-1071, B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 32) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=29, B-D=-69, D-E=19, E-F=124, F-H=26, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=12, A-C=12, A-B=-1458, B-D=-143, E-F=-64, F-Y=-1379, H-Y=-1379, G-I=26, G-H=26
Drag: D-E=-100, S-AA=1071, I-AB=1071, B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 33) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=26, B-D=124, D-E=19, E-F=-69, F-H=29, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=-26, A-C=-26, A-B=1379, B-D=64, E-F=143, F-Y=1458, H-Y=1458, G-I=-12, G-H=-12
Drag: D-E=100, S-AA=-1071, I-AB=-1071, B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 34) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=11, B-D=-87, D-E=19, E-F=142, F-H=43, I-S=-27(F=-15), L-Q=-33(F=-15), B-F=-6
Horz: C-S=-26, A-C=-26, A-B=-1440, B-D=-125, E-F=-47, F-Y=-1362, H-Y=-1362, G-I=-12, G-H=-12
Drag: D-E=-100, S-AA=1071, I-AB=1071, B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=204 W=204 X=204 Y=374 Z=374 AC=195(B) AD=195(B) AE=195(B) AF=195(B) AG=375(B)
- 35) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=15, B-D=114, D-E=-9, E-F=-115, F-H=-17, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Horz: C-S=32, A-C=32, A-B=1382, B-D=67, E-F=105, F-Y=1420, H-Y=1420, G-I=6, G-H=6
Drag: D-E=100, S-AA=-1071, I-AB=-1071, B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=-605 W=-605 X=-605 Y=-1110 Z=-1110 AC=-578(B) AD=-578(B) AE=-578(B) AF=-578(B) AG=-1113(B)
- 36) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=1, B-D=-97, D-E=-9, E-F=96, F-H=-2, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Horz: C-S=32, A-C=32, A-B=-1438, B-D=-123, E-F=-84, F-Y=-1399, H-Y=-1399, G-I=6, G-H=6
Drag: D-E=-100, S-AA=1071, I-AB=1071, B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=-605 W=-605 X=-605 Y=-1110 Z=-1110 AC=-578(B) AD=-578(B) AE=-578(B) AF=-578(B) AG=-1113(B)
- 37) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=-2, B-D=96, D-E=-9, E-F=97, F-H=1, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Horz: C-S=-6, A-C=-6, A-B=1399, B-D=84, E-F=123, F-Y=1438, H-Y=1438, G-I=-32, G-H=-32
Drag: D-E=100, S-AA=-1071, I-AB=-1071, B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=-419 W=-419 X=-419 Y=-769 Z=-769 AC=-400(B) AD=-400(B) AE=-400(B) AF=-400(B) AG=-771(B)
- 38) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=-17, B-D=-115, D-E=-9, E-F=114, F-H=15, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Horz: C-S=-6, A-C=-6, A-B=-1420, B-D=-105, E-F=-67, F-Y=-1382, H-Y=-1382, G-I=-32, G-H=-32
Drag: D-E=-100, S-AA=1071, I-AB=1071, B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=-419 W=-419 X=-419 Y=-769 Z=-769 AC=-400(B) AD=-400(B) AE=-400(B) AF=-400(B) AG=-771(B)
- 39) Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=-13, B-D=85, D-E=-20, E-F=-125, F-H=-27, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Horz: A-B=1410, B-D=95, E-F=95, F-Y=1410, H-Y=1410
Drag: D-E=100, S-AA=-1071, I-AB=-1071, B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=-335 W=-335 X=-335 Y=-615 Z=-615 AC=-320(B) AD=-320(B) AE=-320(B) AF=-320(B) AG=-617(B)
- 40) Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-B=-27, B-D=-125, D-E=-20, E-F=85, F-H=-13, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Horz: A-B=-1410, B-D=-95, E-F=95, F-Y=-1410, H-Y=-1410
Drag: D-E=-100, S-AA=1071, I-AB=1071, B-Q=-10, F-L=-10
Concentrated Loads (lb)
Vert: B=-335 W=-335 X=-335 Y=-615 Z=-615 AC=-320(B) AD=-320(B) AE=-320(B) AF=-320(B) AG=-617(B)
- 41) Dead + Attic Floor + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H, Roosevelt (B_1), B, Lot 70, OAKMONT
3095750	C03	Attic Girder	1	2	I55167660

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Nov 8 15:31:30 2022 Page 6
ID:5gbe_Q0JNoiH4zfeQirvLHzQqXF-dyCkxYujfsbiXDMntQB6Hgwj3wCw1UAOr1?OcyLCLB

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: A-B=-15, B-D=59, D-E=-20, E-F=-99, F-H=-25, I-S=-65(F=-45), L-Q=-135(F=-45), B-F=-10
Horz: A-B=1057, B-D=71, E-F=71, F-Y=1057, H-Y=1057
Drag: D-E=75, S-AA=-803, I-AB=-803, B-Q=-10, F-L=-10

Concentrated Loads (lb)

Vert: B=-838 W=-838 X=-838 Y=-1538 Z=-1538 AC=-800(B) AD=-800(B) AE=-800(B) AF=-800(B) AG=-1541(B)

42) Dead + Attic Floor + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: A-B=-25, B-D=-99, D-E=-20, E-F=59, F-H=-15, I-S=-65(F=-45), L-Q=-135(F=-45), B-F=-10
Horz: A-B=-1057, B-D=-71, E-F=-71, F-Y=-1057, H-Y=-1057
Drag: D-E=-75, S-AA=803, I-AB=803, B-Q=-10, F-L=-10

Concentrated Loads (lb)

Vert: B=-838 W=-838 X=-838 Y=-1538 Z=-1538 AC=-800(B) AD=-800(B) AE=-800(B) AF=-800(B) AG=-1541(B)

43) 0.6 Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: A-B=-5, B-D=93, D-E=-12, E-F=-117, F-H=-19, I-S=-21(F=-9), L-Q=-27(F=-9), B-F=-6
Horz: A-B=1410, B-D=95, E-F=95, F-Y=1410, H-Y=1410
Drag: D-E=100, S-AA=-1071, I-AB=-1071, B-Q=-6, F-L=-6

Concentrated Loads (lb)

Vert: B=-201 W=-201 X=-201 Y=-369 Z=-369 AC=-192(B) AD=-192(B) AE=-192(B) AF=-192(B) AG=-370(B)

44) 0.6 Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: A-B=-19, B-D=-117, D-E=-12, E-F=93, F-H=-5, I-S=-21(F=-9), L-Q=-27(F=-9), B-F=-6
Horz: A-B=-1410, B-D=-95, E-F=-95, F-Y=-1410, H-Y=-1410
Drag: D-E=-100, S-AA=1071, I-AB=1071, B-Q=-6, F-L=-6

Concentrated Loads (lb)

Vert: B=-201 W=-201 X=-201 Y=-369 Z=-369 AC=-192(B) AD=-192(B) AE=-192(B) AF=-192(B) AG=-370(B)

45) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-B=-60, B-D=-60, D-E=-60, E-F=-20, F-H=-20, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Drag: B-Q=-10, F-L=-10

Concentrated Loads (lb)

Vert: B=-670 W=-670 X=-670 Y=-1230 Z=-1230 AC=-640(B) AD=-640(B) AE=-640(B) AF=-640(B) AG=-1233(B)

46) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-B=-20, B-D=-20, D-E=-60, E-F=-60, F-H=-60, I-S=-35(F=-15), L-Q=-45(F=-15), B-F=-10
Drag: B-Q=-10, F-L=-10

Concentrated Loads (lb)

Vert: B=-670 W=-670 X=-670 Y=-1230 Z=-1230 AC=-640(B) AD=-640(B) AE=-640(B) AF=-640(B) AG=-1233(B)

47) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-B=-50, B-D=-50, D-E=-50, E-F=-20, F-H=-20, I-S=-65(F=-45), L-Q=-135(F=-45), B-F=-10
Drag: B-Q=-10, F-L=-10

Concentrated Loads (lb)

Vert: B=-1089 W=-1089 X=-1089 Y=-1999 Z=-1999 AC=-1040(B) AD=-1040(B) AE=-1040(B) AF=-1040(B) AG=-2004(B)

48) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-B=-20, B-D=-20, D-E=-50, E-F=-50, F-H=-50, I-S=-65(F=-45), L-Q=-135(F=-45), B-F=-10
Drag: B-Q=-10, F-L=-10

Concentrated Loads (lb)

Vert: B=-1089 W=-1089 X=-1089 Y=-1999 Z=-1999 AC=-1040(B) AD=-1040(B) AE=-1040(B) AF=-1040(B) AG=-2004(B)

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 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/TPI1 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
Edenton, NC 27932

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/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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/TP1 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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 specified.
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 alter 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. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.