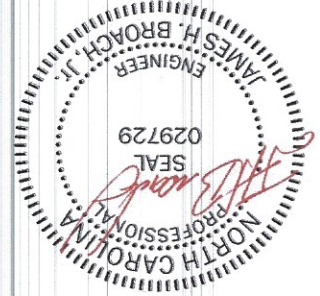


EASLEY, SC OFFICE
880 Jameson Road
Easley, SC 29640
(864) 859-9425
Fax (843) 565-3193

CORPORATE OFFICE
1998 Cane Gully Road
Moncks Corner, SC 29461
(843) 565-3999
Fax (843) 565-3193

SPARTA, NC OFFICE
3255 US Hwy 21 South
Sparta, NC 28675
(336) 372-2226
Fax (336) 372-8420

James H. Broach, Jr., P.E.



Respectfully,

Please be advised the (2) 1-3/4" X 9-1/4" LVL beam at the juncture of the Family Room and the Stairwell and the (2) 2X12 beam at the opening between the Breakfast Room and the Foyer have been replaced with engineered open web floor truss girders. These floor truss girders have been specifically designed to support the loads imposed by the floor trusses spanning the Family Room in the instance of the (2) 1-3/4" X 9-1/4" LVL beam at the stairwell opening and the floor trusses spanning the Breakfast Room and the Foyer in the instance of the (2) 2X12 beam at the opening between the Breakfast Room and the Foyer.

To Whom It May Concern:

Reference: 106 Wildlife Court
Spring Lake, NC 283990

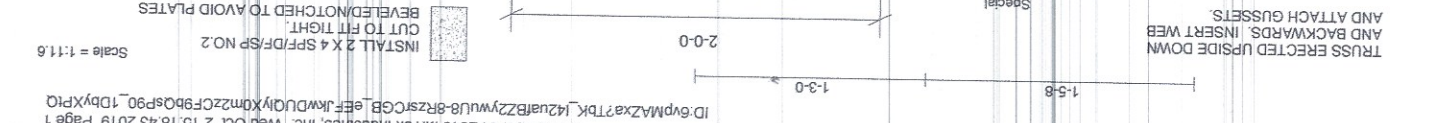
Mr. Craig Dunham
Wymn Construction
2550 Capital Drive
Creedmoor, NC 27522

October 1, 2019

Engineering Letter



Job	Truss Type	Qty	Ply	Lot	Truss Type	Job Reference (optional)
19-1394-F02	F2-010	1	1	1	FLOOR GIRDER	Atlantic Building Components, Moncks Corner, South Carolina
						8 240 s Jul 14 2019 MTEK Industries, Inc. Wed Oct 2 15:18:43 2019 Page 1
						ID:6vpmAZa2x7Btk_142ubnB22ywuU8-8rzsRCGB_eFFjkwJwDUQyXmZ2C9fBp09_1DbYXpIQ



LOADING (psf)	SPACING-	CSL	DEFLL	Vert(LL)	Horz(CT)	Weight: 48 lb
TCLL 40.0	2-0-0	0.78	in (loc)	-0.03	0.01	FT = 20%F, 11%E
TCDL 10.0	Lumber DOL	0.25	l/dell	7 > 999	7 > 999	PLATES GRIP
BCLL 0.0	Rep Stress Incr	NO	l/dell	7 > 999	7 > 999	PLATES GRIP
BCDL 5.0	Code IRC2015/TP2014	WB 0.50	n/a	6 n/a	6 n/a	PLATES GRIP

LUMBER-	TOP CHORD	2x4 SP No. 2(1at)	TOP CHORD	2x4 SP No. 2(1at)	BRACING-	TOP CHORD	Structural wood sheathing directly applied or 5-8-cc purlins, except end verticals.	BOT CHORD	Rigid ceiling directly applied or 10-0-cc bracing.
WEBS	1-8-5-6: 2x4 SP No. 3(1at)	2x4 SP No. 2(1at) *Except	1-8-5-6: 2x4 SP No. 3(1at)	2x4 SP No. 2(1at) *Except	TOP CHORD	Structural wood sheathing directly applied or 5-8-cc purlins, except end verticals.	BOT CHORD	Rigid ceiling directly applied or 10-0-cc bracing.	

REACTIONS.	(lb/size)	8=2229/0-3-8 (min. 0-1-8), 6=2854/0-3-8 (min. 0-1-8)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	1-8-461/0, 5-6=-1220/0, 2-3=-3390/0, 3-11=-3322/0, 4-11=-3322/0
TOP CHORD	7-8=0/2988, 6-7=0/2394	2-8=-3453/0, 2-7=0/498, 4-7=0/1151, 4-6=-2877/0, 3-7=-999/0
BOT CHORD	7-8=0/2988, 6-7=0/2394	2-8=-3453/0, 2-7=0/498, 4-7=0/1151, 4-6=-2877/0, 3-7=-999/0
WEBS	2-8=-3453/0, 2-7=0/498, 4-7=0/1151, 4-6=-2877/0, 3-7=-999/0	

- NOTES - (7-8)**
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS/ITP 1.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0 cc and fastened to each truss with 3-10d (0.131" X 3") nails.
 - Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Use USP TH035140 (Min. 16d X 2-1/2 nails into Truss) or equivalent spaced at 2-0-0 cc max. starting at 0-1-12 from the left end to 4-1-12 to connect trusses) F2-016 (1 ply 2x4 SP) to front face of top chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 849 lb down at 1-3-8, and 849 lb down at 3-3-8, and 899 lb down at 5-7-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

- LOAD CASE(S) Standard**
- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
- Vert: 6-8=-10, 1-5=-100
- Concentrated Loads (lb)
- Vert: 5=-899(B) 3=-620(F) 9=-627(F) 10=-849(B) 11=-849(B) 12=-639(F)

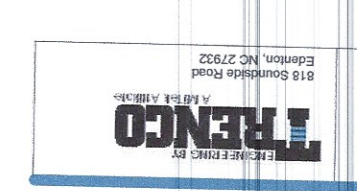
WARNINGS - Verify design parameters and READ NOTES ON THIS AND INCLUDED MTEK REFERENCE PAGE M1743 rev. 10/03/2015 BEFORE USE.

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 included is 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 ANS/ITP 1 Quality Criteria, DSB-89 and BCSI Building Component

818 Soundside Road
Edenton, NC 27932

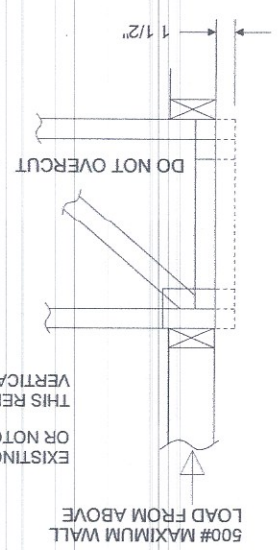
TRENCO
ENGINEERING BY
A L&B COMPANY

October 3, 2019

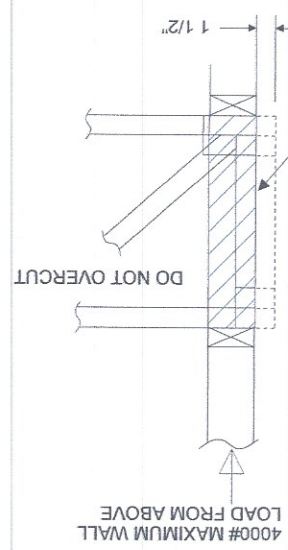




1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
5. THIS REPAIR SHALL BE USED FOR SINGLE PLY TRUSSES IN THE 4X2 ORIENTATION ONLY.
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.

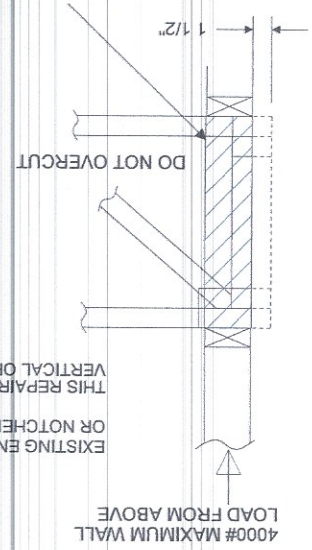


REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES

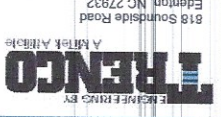
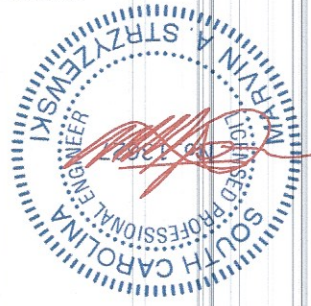


REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES

ATTACH 2x4 SQUASH BLOCK (CUT TO FIT TIGHTLY) TO BOTH SIDES OF THE TRUSS AS SHOWN WITH 10d NAILS (131" DIA. X 3") SPACED 3" O.C.



August 30, 2011



818 Soundside Road
Edenton, NC 27932

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGES PRIOR TO USE.
Design valid for use only with Mittek connectors. The design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component responsibility of building designer - not truss designer. Bracing shown is for lateral support of design parameters and proper incorporation of component responsibility of building designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSR-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 281 N. Lee Street, Suite 312, Alexandria, VA 22314.