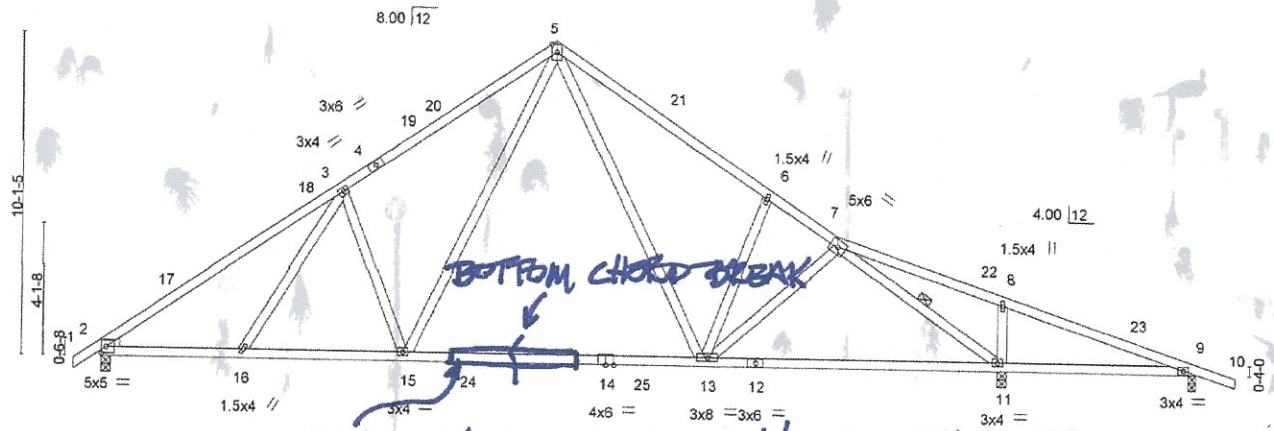
Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes	
Jordan_Plan	A3	Roof Special	3	1	LOT 35 C.P.	E11538860

Builders FirstSource, Albemarle , NC 28001 — Job Reference (optional)

8.210 s Feb 12 2018 MiTek Industries, Inc. Mon Mar 12 14:47:30 2018 Page 1
ID:MJZEUol??5_0Ma4tqfvZ8DysUyk-KCjb1CGocpc4GvQz69FCUmPqHeO9SA6e1C4iPozbekh

-0-10-8	7-7-10	14-4-4	21-0-14	23-4-0	28-6-12	28-7-7	34-8-8	35-11-8
0-10-8	7-7-10	6-8-10	6-8-10	2-3-2	5-2-12	0-0-11	6-1-1	1-3-0

Scale = 1:69.2



APPLY 2X4 SCAB MINIMUM 4' LONG BOTH FACES

	4-6-1	10-3-4	14-4-4	18-5-4	23-4-0	24-11-8	28-6-12	34-8-8
	4-6-1	5-9-3	4-1-0	4-1-0	4-10-12	1-7-8	3-7-4	6-1-12

Plate Offsets (X,Y)-- [2:0-0-14,0-0-10], [2:0-5-5,0-1-3] ATTACH SCABS PER STANDARD DETAIL MII-REP01A1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.40	13-15	>860	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.81	Vert(TL)	-0.66	13-15	>519	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(TL)	0.06	11	n/a	n/a		
BCLL	0.0 *	Code	IRC2009/TPI2007	Matrix-SH		Wind(LL)	0.05	13-15	>999	240	Weight: 192 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
9-12: 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-11.
WEBS 1 Row at midpt 7-11

REACTIONS. (lb/size) 2=1272/0-3-8, 11=1689/0-3-8, 9=158/0-3-0
Max Horz 2=-304(LC 8)
Max Uplift 2=-224(LC 10), 11=-211(LC 11), 9=-147(LC 9)
Max Grav 2=1272(LC 1), 11=1689(LC 1), 9=183(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1833/292, 3-5=-1593/375, 5-6=-1519/357, 6-7=-1511/274, 7-8=-15/388, 8-9=-83/431
BOT CHORD 2-16=-141/1397, 15-16=-126/1356, 13-15=0/896, 11-13=-100/1196, 9-11=-344/120
WEBS 5-15=-176/766, 3-15=-397/229, 5-13=-129/641, 6-13=-337/180, 8-11=-460/235, 7-11=-1906/259

MAX FORCE 896 lbs

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -0-10-8 to 2-7-2, Interior(1) 2-7-2 to 14-4-4, Exterior(2) 14-4-4 to 17-9-14, Interior(1) 23-4-0 to 35-11-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 11, and 9. This connection is for uplift only and does not consider lateral forces.

NORTH CAROLINA PROFESSIONAL SEAL 16673 ENGINEER MARVIN A. STRZYZEWSKI

March 12,2018

ENGINEERING BY TRENCO
818 Soundside Road
Edenton, NC 27932

LAMCO - LOT 35 C.P. A3 TRUSS

AUGUST 1, 2016	STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES	MII-REP01A1

MiTek USA, Inc. Page 1 of 1

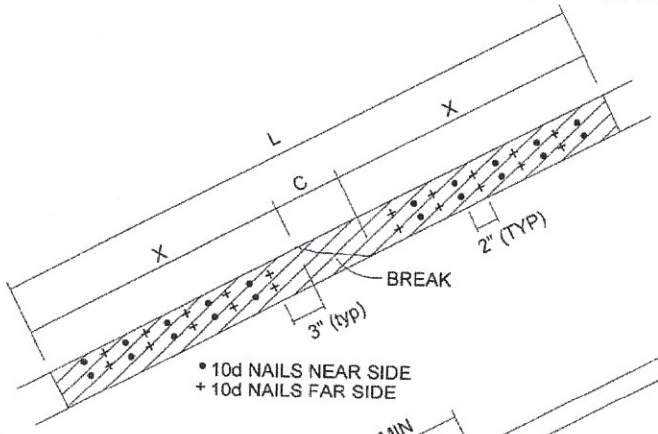
MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate

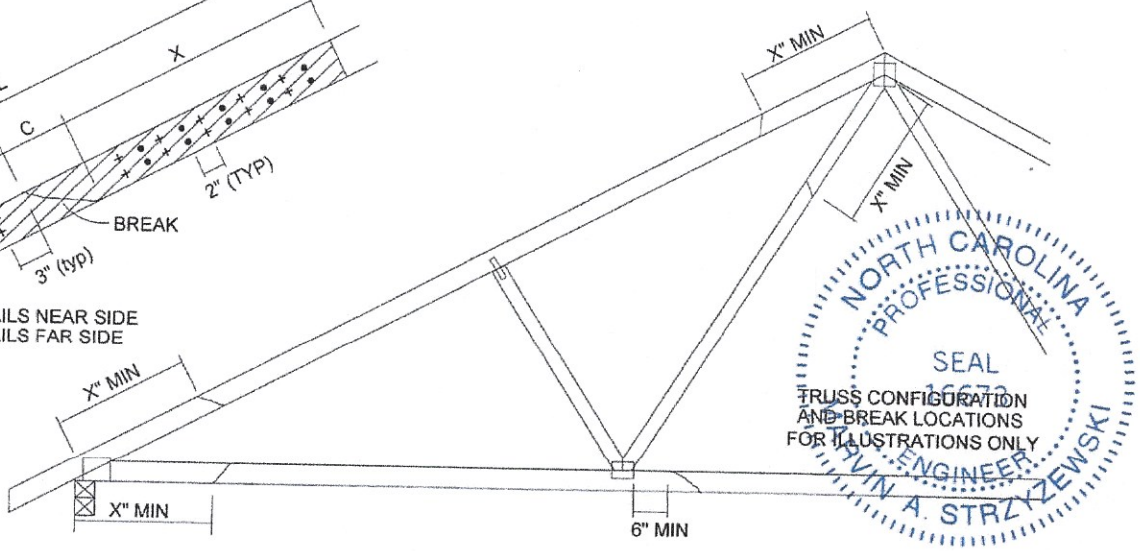
TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS)
THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:
L = (2) X + C





NORTH CAROLINA PROFESSIONAL SEAL 13627 ENGINEER MARVIN A. STRZYZEWSKI

THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES:
1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. 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. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING 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 UNUSUAL SPLITTING OF THE WOOD.
4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ ORIENTATION ONLY.
6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.

NORTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 13627 MARVIN A. STRZYZEWSKI

COMMONWEALTH OF VIRGINIA MARVIN A STRZYZEWSKI Lic. No. 021091 PROFESSIONAL ENGINEER

November 17,2016

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MiTEK REFERENCE PAGE MII-7473 rev. 10/03/2016 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY TRENCO
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