ADDRESS . : 7809 NC 42 SUBDIV:
CONTRACTOR : POWELL SHANNON WAYNE PHONE : (919) 796-8005
OWNER . . : REGISTER SLADE DWAYNE PHONE :
PARCEL . . : 05-0615- - -0001- -13-
APPL NUMBER: 13-50030947 CP NEW RESIDENTIAL (SFD)
DIRECTIONS : T/S: 04/01/2013 02:07 PM VBROWN ----
HWY 42W NEAR 7779 HWY 42 HOLLY SPRINGS.
42W TOWARDS CLARKS CORNER RD, PROPERTY
IS BEFORE CLARKS CORNER RD IF YOU GO
PAST CLARKS CORNER RD YOU HAVE GONE TO
FAR. PROPERTY IS ON RIGHT.

STRUCTURE: 000 000 81X58 4BDR 3BATH SFD W GAR DECK CRAWL
FLOOD ZONE . . . . : FLOOD ZONE X
BEDROOMS . . . . . : 4.00 PROPOSED USE . . . . . : SFD
SEPTIC - EXISTING? . . . . : NEW TANK WATER SUPPLY . . . . . : NEW WELL

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	5/28/13	BS	R*BLDG FOOTING / TEMP SVC POLE VRU #: 002387367
	5/29/13	DA	T/S: May 29, 2013 10:01 AM BSUTTON ---------- OK to pour the footings that are here.The plan as drawn will not work.All loads from the second floor and roof must transfer directly through to piers or girders designed to carry the load.Submit a plan that is suitable and DO NOT CHANGE IT. DO NOT INSTALL ANY FOUNDATION WORK UNTIL THIS IS RESOLVED.
B101 02	6/11/13	BS	R*BLDG FOOTING / TEMP SVC POLE TIME: 17:00 VRU #: 002395101
	6/11/13	AP	
A814 01	6/12/13	TW	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 002395127
	6/12/13	AP	7809 NC 42 HOLLY SPRINGS 27540 ---------- T/S: 06/12/2013 09:03 AM TWARD ----------
B103 01	6/12/13	BS	R*BLDG FOUND & TEMP SVC POLE TIME: 17:00 VRU #: 002395119
	6/12/13	AP	T/S: June 12, 2013 02:32 PM BSUTTON ---------- Foundation is approved.
B105 01	7/29/13	KS	R*OPEN FLOOR VRU #: 002416335
	7/29/13	AP	T/S: 07/29/2013 03:50 PM KSLATTUM ----------
E207 01	8/02/13	BS	R*ELEC TEMP SERVICE POLE TIME: 17:00 VRU #: 002419372
	8/02/13	AP	T/S: 08/01/2013 09:40 AM VBROWN ---------- T/S: August 02, 2013 02:41 PM BSUTTON ----------
R425 01	10/04/13 10-4	TI DA	FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 002449007 T/S: 10/03/2013 01:43 PM DJOHNSON ---------- PLEASE CALL SHANNON AT 919-796-8005 BEFORE GOING OUT. WOULD LIKE TO MEET YOU THERE.

---------- COMMENTS AND NOTES ----------

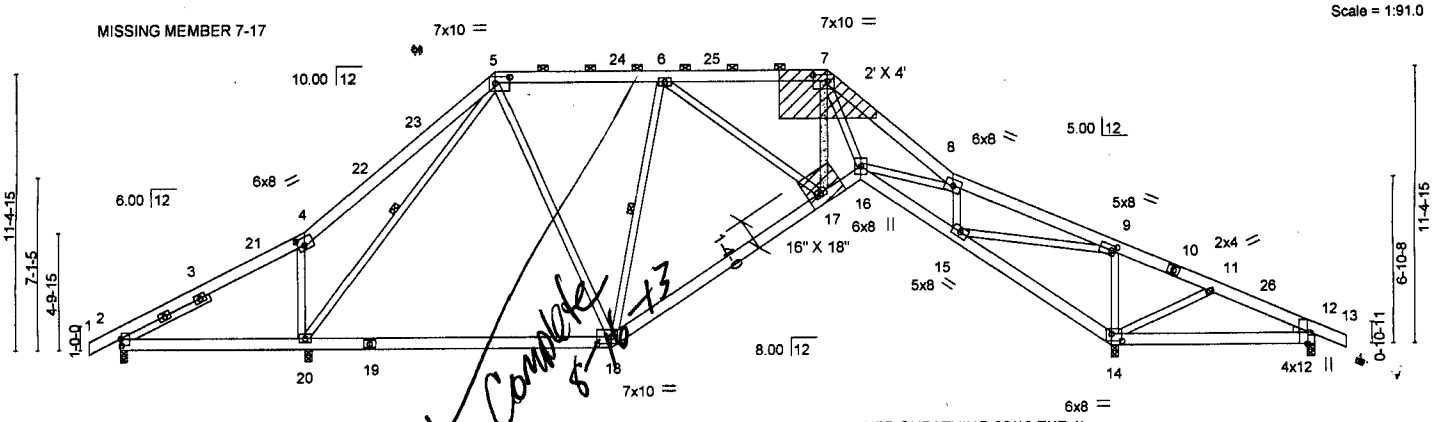
Job	Truss	Truss Type	Qty	Ply	REGISTER@CUSTOMLot8809*506340	I20964415
REG8809	D02	SPECIAL	7	1	1 UNIT YF Job Reference (optional)	

Builders FirstSource, Apex, NC, 27523

7.350 s Sep 26 2012 MiTek Industries, Inc. Fri Aug 09 07:18:40 2013 Page 1
ID:F?eBHXgVaQEs8t6lCm_YzjyzoEr-TYZYYhYaqxZABY5SX29dc3toXT2luqR1C4mF7hypf3T

1-4-0 | 7-7-15 | 15-6-12 | 22-5-1 | 29-3-7 | 34-5-6 | 40-11-8 | 45-0-4 | 49-4-8 | 50-8-8
1-4-0 | 7-7-15 | 7-10-13 | 6-10-6 | 6-10-6 | 5-1-15 | 6-6-2 | 4-0-12 | 4-4-4 | 1-4-0

Scale = 1:91.0



ADD 2 X 4 SP NO.2
CUT TO FIT TIGHT

ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" APA RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH 10d (3" X .131") NAILS DRIVEN THROUGH BOTH SHEETS OF PLYWOOD AND CLINCHED 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 @ 0-4-0 O.C.
NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

7-7-15 | 7-9-12 | 20-4-0 | 29-3-7 | 30-7-12 | 34-5-6 | 40-11-8 | 41-1-4 | 49-4-8
7-7-15 | 0-1-13 | 12-6-4 | 8-11-7 | 1-4-5 | 3-9-10 | 6-6-2 | 0-1-12 | 8-3-4

Plate Offsets (X,Y): [2:0-3-5,0-0-8], [4:0-3-4,0-3-8], [5:0-7-0,0-3-0], [7:0-7-0,0-3-0], [9:0-2-4,0-2-8], [12:0-5-8,Edge], [14:0-5-4,0-3-8], [18:0-7-0,0-3-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.15	TC	0.85	Vert(LL)	-0.19	18-20	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.15	BC	0.68	Vert(TL)	-0.50	18-20	>808	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.92	Horz(TL)	0.21	14	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)		Wind(LL)	0.07	12-14	>999	240	Weight: 385 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3
SLIDER Left 2x4 SP No.2 4-1-9

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-12 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 4-7-5 oc bracing.
WEBS 1 Row at midpt 5-20, 6-18

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=324/0-3-8 (min. 0-1-8), 14=2917/0-3-8 (min. 0-3-7), 12=-569/0-3-8 (min. 0-1-8), 20=2054/0-3-8 (min. 0-2-7)
Max Horz 2=-210(LC 5)
Max Uplift 2=-161(LC 5), 14=-158(LC 5), 12=-582(LC 11), 20=-397(LC 6)
Max Grav 2=358(LC 11), 14=2917(LC 1), 20=2054(LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-22=-481/412, 22-23=-128/286, 5-23=-3/263, 5-24=-711/346, 6-24=-710/346, 6-25=-1050/258, 7-25=-1052/258, 7-8=-1846/221, 8-9=-271/147, 9-10=-153/2242, 10-11=-165/2155, 11-26=-65/1824, 12-26=-78/1755
BOT CHORD 19-20=-54/609, 18-19=-54/609, 17-18=-67/1044, 16-17=0/1200, 15-16=0/303, 14-15=-2516/325, 12-14=-1546/88
WEBS 4-20=-1025/713, 5-20=-958/76, 5-18=-32/333, 6-18=-623/107, 6-17=0/289, 7-16=0/902, 8-16=0/1098, 8-15=-1283/230, 9-15=-202/2229, 9-14=-1157/225, 11-14=-517/173

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) -1-4-0 to 3-7-4, Interior(1) 3-7-4 to 15-6-12, Exterior(2) 15-6-12 to 34-5-6, Interior(1) 34-5-6 to 50-8-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 4x6 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=161, 14=158, 12=582, 20=397.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9)
10) This manufactured product 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.
11) This truss design conforms with NC State residential code 2012 and ANSI/TPI 1-2007 based on the parameters shown.

NORTH CAROLINA PROFESSIONAL SEAL 28228 ENGINEER XUEGANG LIU

August 12,2013

LOAD CASE(S) Standard

Continued on page 2

MiTek
14515 N. Outer Forty, Suite #300
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	REGISTER@CUSTOMLot8809*506340 I20964415
REG8809	D02	SPECIAL	7	1	Job Reference (optional)

Builders FirstSource, Apex, NC, 27523

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LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-21=-60, 5-23=-60, 5-7=-60, 7-8=-60, 8-13=-60, 2-18=-20, 16-18=-20, 14-16=-20, 12-14=-20
   Trapezoidal Loads (plf)
      Vert: 21=-180-to-4=-166, 4=-166-to-23=-120