DATE 08/02/2011

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000029591

APPLICANT ADAM BEDENBAUGH PHONE 386-623-1568

ADDRESS 390 SW BEDENBAUGH LN LAKE CITY FL 32025

OWNER ROBERT KEBLER/JANICE SHEER PHONE

ADDRESS 650 NE FALLOW DR FORT WHITE FL 32038

CONTRACTOR GREG ADAM BEDENBAUGH PHONE 623-1568

LOCATION OF PROPERTY 441 N, R FALLOW DR (@ DEER RUN PRESERVE) THEN 1ST ON RIGHT, SEE EXISTING BARN

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 200400.00

HEATED FLOOR AREA 3389.00 TOTAL AREA 4008.00 HEIGHT 28.00 STORIES 2

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 10/12 FLOOR SLAB

LAND USE & ZONING AG-1 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 05-1S-17-04492-012 SUBDIVISION DEER RUN PRESERVE

LOT 4 BLOCK PHASE UNIT TOTAL ACRES 20.00

		CGC025998	* Gregory A. Bedenbaugh	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
EXISTING	11-0197	BK	TC	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD

NOC ON FILE

Check # or Cash 514

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by Foundation _____ date/app. by Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by Slab _____ date/app. by Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by Insulation _____ date/app. by

Rough-in plumbing above slab and below wood floor _____ date/app. by Electrical rough-in _____ date/app. by

Heat & Air Duct _____ date/app. by Peri. beam (Lintel) _____ date/app. by Pool _____ date/app. by

Permanent power _____ date/app. by C.O. Final _____ date/app. by Culvert _____ date/app. by

Pump pole _____ date/app. by Utility Pole _____ date/app. by M/H tie downs, blocking, electricity and plumbing _____ date/app. by

Reconnection _____ date/app. by RV _____ date/app. by Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 1005.00 CERTIFICATION FEE $ 20.04 SURCHARGE FEE $ 20.04

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 1120.08

INSPECTORS OFFICE _____ CLERKS OFFICE CH

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Important Notice: If visually graded lumber is used for the trusses covered by these designs, see "SPIB Important Notice, Dated July 28, 2010" (reprinted at www.mii.com) before use. MiTek does not warrant third-party lumber design values.

RE: SHEER - ROOF DESIGN INFO

MiTek Industries, Inc.
6904 Parke East Boulevard
Tampa, FL 33610-4115

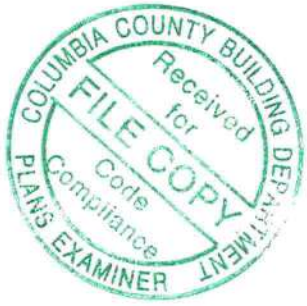
Site Information:
Customer Info: SHEER Project Name: SHEER Model:
Lot/Block: . Subdivision: .
Address: .
City: SUWANNEE COUNTY State: FLORIDA

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

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2007 Design Program: OnLine Plus 28.0.007
Wind Code: ASCE 7-05 Wind Speed: 110 mph Floor Load: N/A psf
Roof Load: 40.0 psf

This package includes 10 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

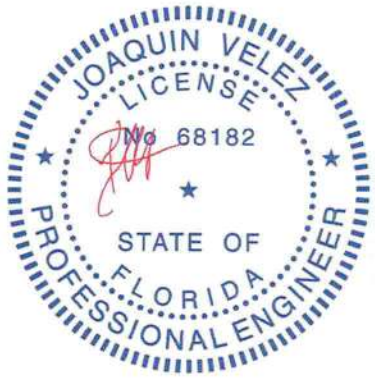
No.	Seal#	Truss Name	Date
1	T4063358	A1	4/27/011
2	T4063359	A2GIR	4/27/011
3	T4063360	A3GIR	4/27/011
4	T4063361	A4GE	4/27/011
5	T4063362	P1	4/27/011
6	T4063363	P2	4/27/011
7	T4063364	P3	4/27/011
8	T4063365	P4GE	4/27/011
9	T4063366	M1	4/27/011
10	T4063367	M2GE	4/27/011



The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2013.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Sec. 2.



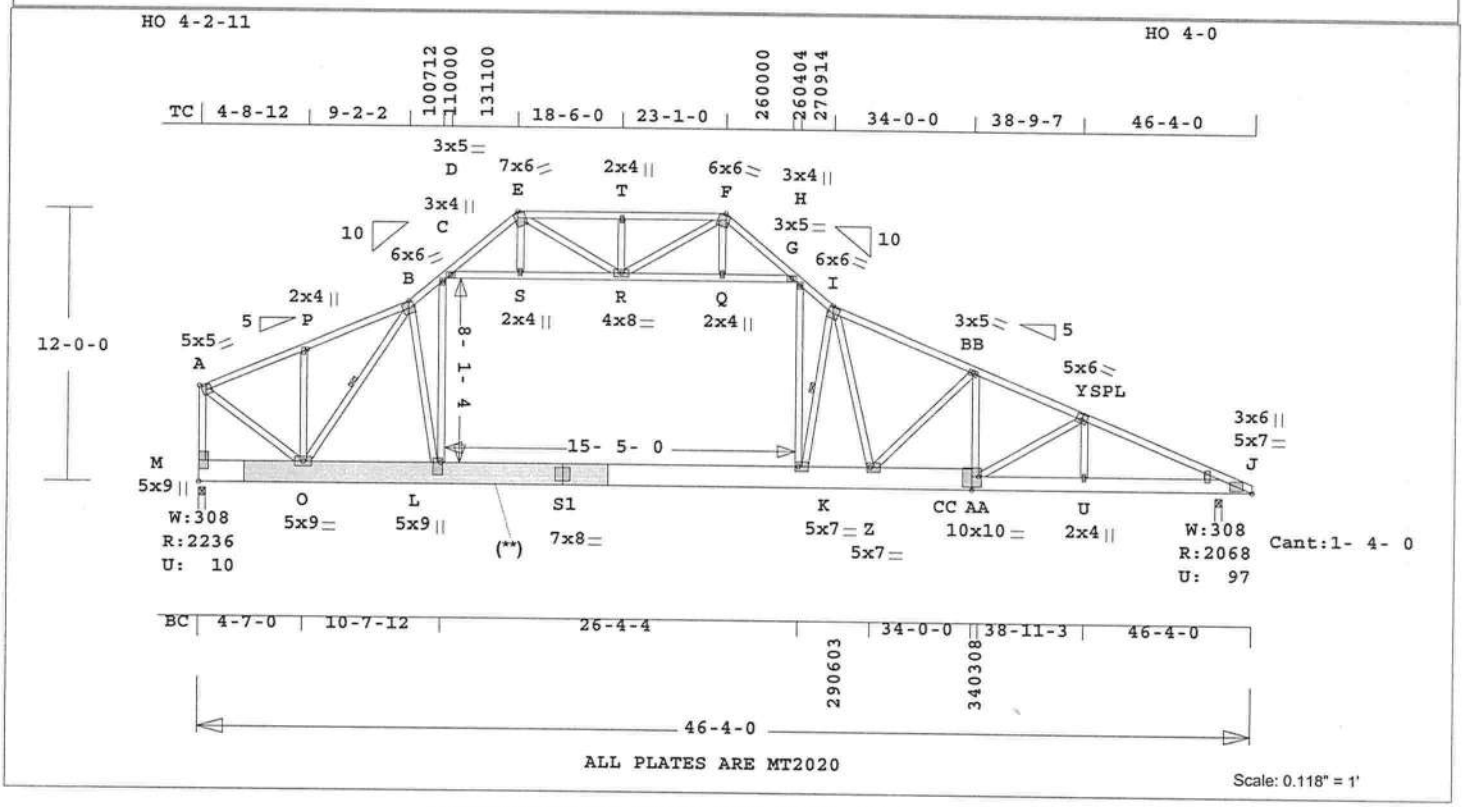
FL Cert. 6634

April 27,2011

Velez, Joaquin 1 of 1

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SHEER	A1	18	SP	460400	5	0	0	T4063358

SHEER



Online Plus -- Version 28.0.007
RUN DATE: 27-APR-11

	CSI	-Size-	----Lumber----
TC	0.62	2x 4	SP-#2
BC	0.89	2x12	SP-#2
--	0.38	2x 8	SP-2400f-2.0E
	AA-J		
WB	0.66	2x 4	SP-#2
ACT	0.20	2x 4	SP-#2
AWT	0.06	2x 4	SP-#2
WG	---	2x 4	SP-#2
SCAB	(1)	2x12	SP-#2 (**)

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	13-11- 0
TC 24.0"	13-11- 0	23- 1- 0
TC Cont.	23- 1- 0	46- 4- 0
BC Cont.	0- 0- 0	46- 4- 0

One Continuous Lateral Brace
O -B K -I
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 19.1"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
M	2236	10 U	245 R
J	2069	97 U	180 R

Jt	Brg Size	Required
M	3.5"	2.6"
J	3.5"	1.5"

LC# 1 Attic Loading
Dur Fctrs - Lbr 1.25 Plt 1.25

plf -	Dead	Live*	From	To
TC V	16	32	0.0'	46.3'
BC V	16	0	0.0'	46.3'
BC V	8	64	10.8'	26.2'
MA V	8	0	11.0'	26.0'
TC V	32	0	10.6'	CL-LB
BC V	32	0	10.6'	CL-LB
TC V	32	0	26.4'	CL-LB
BC V	32	0	26.4'	CL-LB

Plus 9 Wind Load Case(s)

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 635.6 LBS
Plus 2 Unbalanced Load Cases
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)
Plus 1 Attic 2 Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -P	0.27	1684 C	0.01 0.26
P -B	0.27	1716 C	0.01 0.26
B -C	0.27	3644 C	0.09 0.18
D -E	0.53	504 C	0.00 0.53
E -T	0.16	610 C	0.00 0.16
T -F	0.16	610 C	0.00 0.16
F -G	0.15	547 C	0.00 0.15
H -I	0.62	3723 C	0.07 0.55
I -BB	0.42	3602 C	0.17 0.25
BB-Y	0.33	3963 C	0.10 0.23
Y -J	0.50	3778 C	0.10 0.40
--------Bottom Chords---------			
M -O	0.21	206 T	0.00 0.21
O -L	0.82	2767 T	0.19 0.63
L -S1	0.83	2783 T	0.20 0.63
S1-K	0.89	2783 T	0.20 0.69
K -Z	0.80	3178 T	0.23 0.57
Z -AA	0.46	3664 T	0.28 0.18
AA-U	0.27	3477 T	0.12 0.15
U -J	0.38	3474 T	0.12 0.26
------------Webs------------			
M -A	0.43	2024 C	WindLd
A -O	0.37	2029 T	
O -P	0.12	298 C	
O -B	0.66	2265 C	1 Br
B -L	0.10	277 T	
L -C	0.34	1831 T	
K -H	0.36	1997 T	
K -I	0.45	2015 C	1 Br
I -Z	0.28	799 T	
Z -BB	0.30	499 C	
AA-BB	0.04	247 T	
AA-Y	0.05	274 T	
U -Y	0.05	379 C	
------Attic Chords (Top)------			
D -S	0.20	2440 C	0.20 0.00
S -R	0.08	2442 C	0.03 0.05
R -Q	0.09	2351 C	0.03 0.06
Q -G	0.19	2349 C	0.19 0.00
-------Attic Webs (Top)-------			
S -E	0.00	44 T	
E -R	0.06	344 T	
R -T	0.03	238 C	
R -F	0.04	253 T	
Q -F	0.01	46 T	

TL Defl -1.21" in L -K L/439
LL Defl -0.62" in L -K L/864
Shear // Grain in S1-K 0.25

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	5.0x 5.0	0.5	0.2	0.85
P	MT20	2.0x 4.0	Ctr	Ctr	0.31
B	MT20	6.0x 6.0	Ctr	Ctr	0.86
C	MT20	3.0x 4.0	Ctr	Ctr	0.80
D	MT20	3.0x 5.0	Ctr	Ctr	0.74
E	MT20	7.0x 6.0	1.6-4.3		0.52
T	MT20	2.0x 4.0	Ctr	Ctr	0.34
F	MT20	6.0x 6.0	-1.4-3.8		0.52
G	MT20	3.0x 5.0	Ctr	Ctr	0.72
H	MT20	3.0x 4.0	Ctr	Ctr	0.87
I	MT20	6.0x 6.0	Ctr	Ctr	0.78
BB	MT20	3.0x 5.0	Ctr	Ctr	0.35
Y	MT20	5.0x 6.0	0.2	0.5	0.45
J	MT20	5.0x 7.0	Ctr-0.2		0.72
J	MT20	3.0x 6.0	Ctr	Ctr	0.00
M	MT20	5.0x 9.0	0.8	Ctr	0.13
O	MT20	5.0x 9.0	Ctr	Ctr	0.67
L	MT20	5.0x 9.0	Ctr-2.2		0.64
S1	MT20	7.0x 8.0	Ctr	Ctr	0.53
K	MT20	5.0x 7.0	Ctr	Ctr	0.60
Z	MT20	5.0x 7.0	Ctr	Ctr	0.25
AA	MT20	10.0x10.0	Ctr-0.5		0.46
U	MT20	2.0x 4.0	Ctr	Ctr	0.34
S	MT20	2.0x 4.0	Ctr	Ctr	0.31
R	MT20	4.0x 8.0	Ctr	Ctr	0.23
Q	MT20	2.0x 4.0	Ctr	Ctr	0.30

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

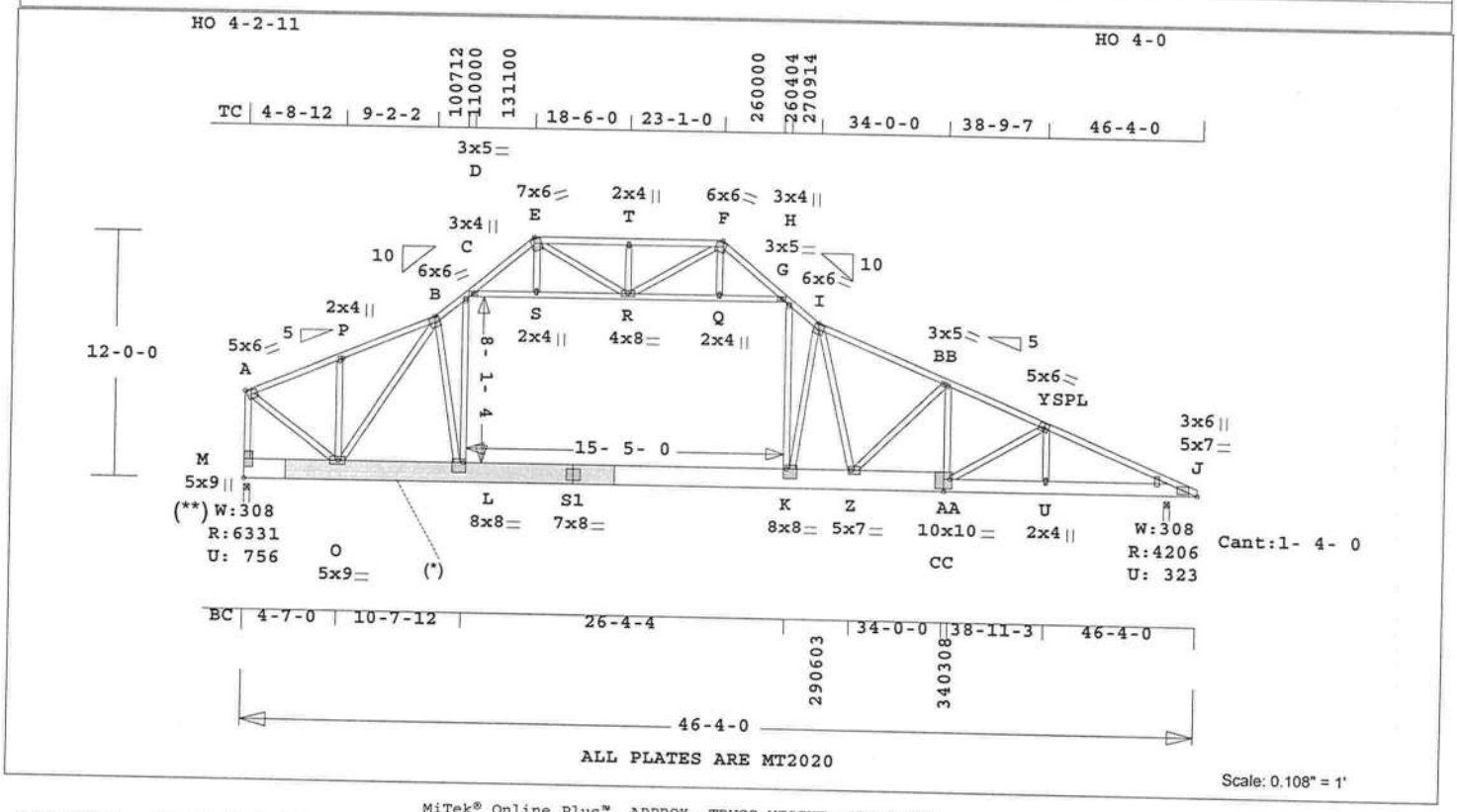
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2007
TPI 2002
Fasten each scab (shaded) with 2 rows of 10d nails at 6 In o.c. each row, staggered along entire length.
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Unbalanced Loads Checked
Load Factors = 1.00 and 0.00
Max comp. force 3963 Lbs
Max tens. force 3664 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

FL Cert. 6634

April 27,2011

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
SHEER	A2GIR	4*2P	SP	460400	5	0	0	T4063359

SHEER



Online Plus -- Version 28.0.007
RUN DATE: 27-APR-11
****
* 2-Ply Truss *
****

	CSI	-Size-	----Lumber----
TC	0.63	2x 4	SP-#2
BC	0.94	2x12	SP-#2
--	0.43	2x 8	SP-2400f-2.0E
	AA-J		
WB	0.87	2x 4	SP-#2
ACT	0.25	2x 4	SP-#2
AWT	0.05	2x 4	SP-#2
WG	---	2x 4	SP-#2
SCAB	(1)	2x12	SP-#2 (*)

Brace truss as follows:

	O.C.	From	To
TC	24.0"	0- 0- 0	13-11- 0
TC	24.0"	13-11- 0	23- 1- 0
TC	24.0"	23- 1- 0	46- 4- 0
BC	120.0"	0- 0- 0	46- 4- 0

psf-Ld	Dead	Live	
TC	10.0	20.0	
BC	10.0	0.0	
TC+BC	20.0	20.0	
Total	40.0	Spacing	36.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.00 Fc=1.00 Ft=1.00
BC Fb=1.00 Fc=1.00 Ft=1.00

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
M	6332	756 U	454 R
J	4207	323 U	317 R

Jt	Brg Size	Required
M	3.5"	3.7" **
J	3.5"	1.6"

LC# 1 Attic Loading
Dur Fctrs - Lbr 1.25 Plt 1.25

plf -	Dead	Live*	From	To
TC V	30	60	0.0'	46.3'
BC V	30	0	0.0'	46.3'
TC V	107	105	1.8'	
	30	30		11.0'
BC V	15	120	1.8'	10.6'
BC V	15	120	10.8'	26.2'
MA V	15	0	11.0'	26.0'
TC V	60	0	10.6'	CL-LB
BC V	60	0	10.6'	CL-LB
TC V	60	0	26.4'	CL-LB
BC V	60	0	26.4'	CL-LB

Plus 9 Wind Load Case(s)
Plus 2 Unbalanced Load Cases
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)
Plus 1 Attic 2 Load Case(s)

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 635.6 LBS

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -P	0.62	4811 C	0.04 0.58
P -B	0.63	4958 C	0.05 0.58
B -C	0.31	8202 C	0.14 0.17
D -E	0.50	962 C	0.00 0.50
E -T	0.18	1132 C	0.00 0.18
T -F	0.18	1132 C	0.00 0.18
F -G	0.19	1001 C	0.02 0.17
H -I	0.63	8216 C	0.11 0.52
I -BB	0.55	7575 C	0.25 0.30
BB-Y	0.39	8212 C	0.13 0.26
Y -J	0.58	7763 C	0.12 0.46
--------Bottom Chords---------			
M -O	0.20	382 T	0.00 0.20
O -L	0.94	6403 T	0.24 0.70
L -S1	0.94	6202 T	0.24 0.70
S1-K	0.80	6202 T	0.24 0.56
K -Z	0.58	6881 T	0.27 0.31
Z -AA	0.49	7593 T	0.32 0.17
AA-U	0.30	7145 T	0.13 0.17
U -J	0.43	7139 T	0.13 0.30
------------Webs------------			
M -A	0.36	5861 C	WindLd
A -O	0.54	5855 T	
O -P	0.13	1334 C	
O -B	0.87	3733 C	
B -L	0.22	1383 T	
L -C	0.40	4337 T	
K -H	0.41	4472 T	
K -I	0.63	3550 C	
I -Z	0.08	930 T	
Z -BB	0.12	899 C	
AA-BB	0.03	419 T	
AA-Y	0.05	629 T	
U -Y	0.04	800 C	
------Attic Chords (Top)------			
D -S	0.25	5530 C	0.25 0.00
S -R	0.13	5534 C	0.10 0.03
R -Q	0.14	5443 C	0.11 0.03
Q -G	0.25	5439 C	0.25 0.00
-------Attic Webs (Top)-------			
S -E	0.00	89 T	
E -R	0.05	610 T	
R -T	0.02	450 C	
R -F	0.04	521 T	
Q -F	0.00	91 T	

TL Defl -0.98" in L -K L/543
LL Defl -0.50" in L -K L/999
Shear // Grain in A -P 0.40

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	5.0x 6.0	0.7	0.3	0.94
P	MT20	2.0x 4.0	Ctr	Ctr	0.30
B	MT20	6.0x 6.0	Ctr	Ctr	0.93
C	MT20	3.0x 4.0	Ctr	Ctr	0.94
D	MT20	3.0x 5.0	Ctr	Ctr	0.84
E	MT20	7.0x 6.0	1.6-4.3		0.52
T	MT20	2.0x 4.0	Ctr	Ctr	0.17
F	MT20	6.0x 6.0	1.4-3.8		0.52
G	MT20	3.0x 5.0	Ctr	Ctr	0.84
H	MT20	3.0x 4.0	Ctr	Ctr	0.97
I	MT20	6.0x 6.0	Ctr	Ctr	0.86
BB	MT20	3.0x 5.0	Ctr	Ctr	0.18
Y	MT20	5.0x 6.0	0.2	0.5	0.46
J	MT20	5.0x 7.0	Ctr-0.2		0.74
J	MT20	3.0x 6.0	Ctr	Ctr	0.00
M	MT20	5.0x 9.0	0.8	Ctr	0.25
O	MT20	5.0x 9.0-0.5		Ctr	0.85
L	MT20	8.0x 8.0-0.5-1.6			0.69
S1	MT20	7.0x 8.0	Ctr	Ctr	0.68
K	MT20	8.0x 8.0	0.5-1.6		0.71
Z	MT20	5.0x 7.0	Ctr	Ctr	0.15
AA	MT20	10.0x10.0	Ctr-0.5		0.46
U	MT20	2.0x 4.0	Ctr	Ctr	0.17
S	MT20	2.0x 4.0	Ctr	Ctr	0.19
R	MT20	4.0x 8.0	Ctr	Ctr	0.19
Q	MT20	2.0x 4.0	Ctr	Ctr	0.20

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2007
TPI 2002
2 COMPLETE TRUSSES REQUIRED.
Fasten together in staggered pattern. (1/2" bolts -OR- SDS3 screws -OR- 10d nails as each layer is applied.)

	----Spacing (In)----		
Rows	Nails	Screws	Bolts
TC 1	12	24	0
BC 2	12	24	0
WB 1	8	8	

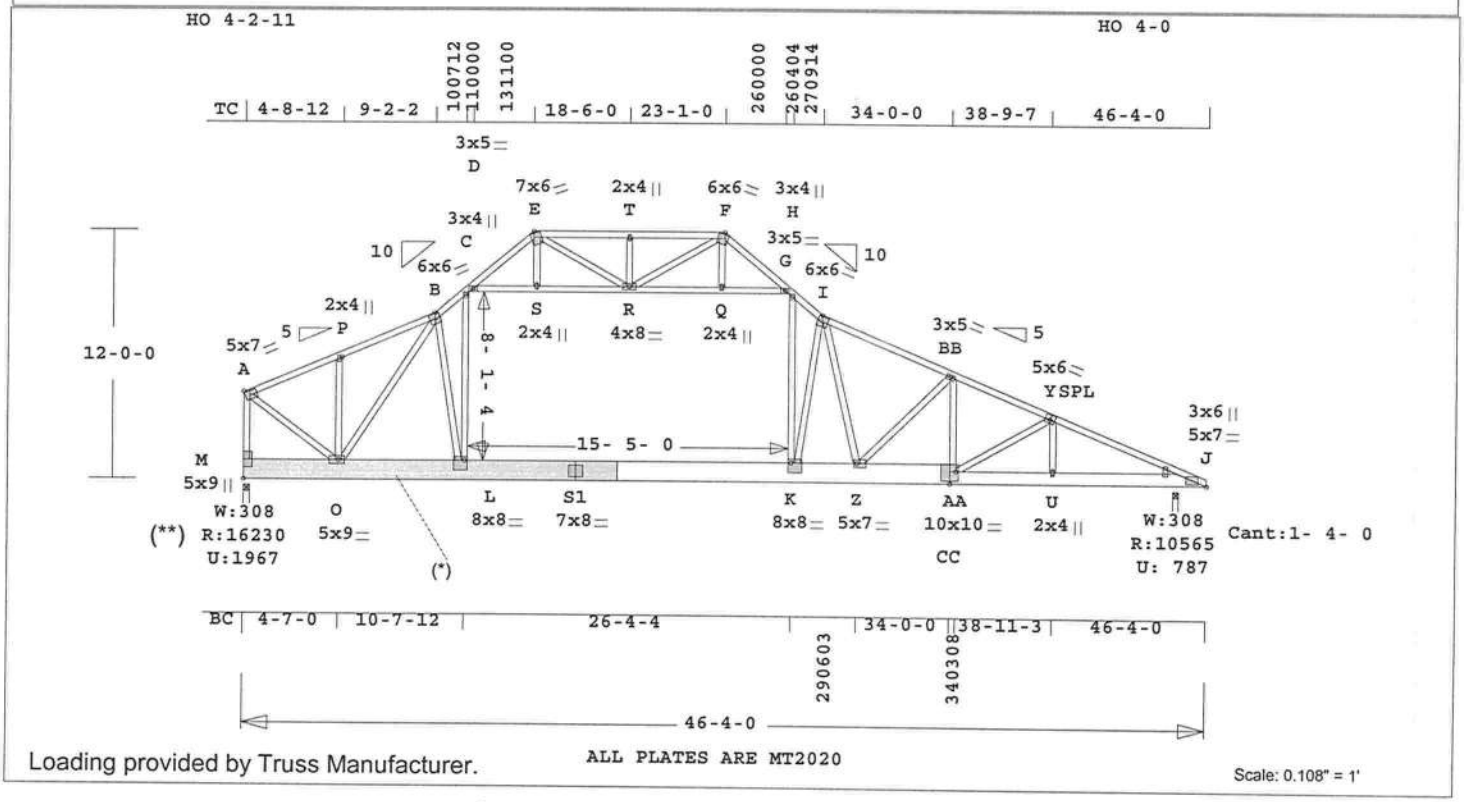
Web Connection Exception --
Space screws or nails for the following webs-
O -B @ 4" o.c.
K -I @ 4" o.c.
Fasten each scab (shaded) with 2 rows of 10d nails at 6 In o.c. each row, staggered along entire length.
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Unbalanced Loads Checked
Load Factors = 1.00 and 0.00
Max comp. force 8216 Lbs
Max tens. force 7593 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

FL Cert. 6634

April 27,2011

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
SHEER	A3GIR	2*5P	SP	460400	5	0	0	T4063360

SHEER



MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 647.0 LBS

Online Plus -- Version 28.0.007
RUN DATE: 27-APR-11
****
* 5-Ply Truss *
****

	CSI	-Size-	----Lumber----
TC	0.59	2x 4	SP-#2
BC	1.00	2x12	SP-#2
--	0.39	2x 8	SP-2400f-2.0E
	AA-J		
WB	0.55	2x 4	SP-#2
ACT	0.23	2x 4	SP-#2
AWT	0.05	2x 4	SP-#2
WG	---	2x 4	SP-#2
SCAB	(1)	2x12	SP-#2 (*)

Brace truss as follows:

	O.C.	From	To
TC	24.0"	0- 0- 0	13-11- 0
TC	24.0"	13-11- 0	23- 1- 0
TC	24.0"	23- 1- 0	46- 4- 0
BC	24.0"	0- 0- 0	46- 4- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 90.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
M	16231	1968 U	1130 R
J	10566	788 U	782 R

Jt	Brg Size	Required
M	3.5"	3.8" **
J	3.5"	1.6"

LC# 1 Attic Loading
Dur Fctrs - Lbr 1.25 Plt 1.25

plf -	Dead	Live*	From	To
TC V	75	150	0.0'	46.3'
BC V	75	0	0.0'	46.3'
TC V	289	338	1.8'	
	75	75		11.0'
BC V	38	300	1.8'	10.6'
BC V	38	300	10.8'	26.2'
MA V	38	0	11.0'	26.0'
TC V	149	0	10.6'	CL-LB
BC V	149	0	10.6'	CL-LB
TC V	149	0	26.4'	CL-LB
BC V	149	0	26.4'	CL-LB

Plus 9 Wind Load Case(s)
Plus 2 Unbalanced Load Cases
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)
Plus 1 Attic 2 Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -P	0.58	12301 C	0.03 0.55
P -B	0.59	12710 C	0.04 0.55
B -C	0.27	20714 C	0.09 0.18
D -E	0.43	2406 C	0.00 0.43
E -T	0.15	2828 C	0.00 0.15
T -F	0.15	2828 C	0.00 0.15
F -G	0.18	2497 C	0.00 0.18
H -I	0.54	20725 C	0.09 0.45
I -BB	0.49	19062 C	0.23 0.26
BB-Y	0.33	20648 C	0.11 0.22
Y -J	0.50	19512 C	0.10 0.40
--------Bottom Chords---------			
M -O	0.15	952 T	0.00 0.15
O -L	1.00	16202 T	0.22 0.78
L -S1	1.00	15652 T	0.21 0.79
S1-K	0.72	15652 T	0.21 0.51
K -Z	0.51	17343 T	0.24 0.27
Z -AA	0.44	19092 T	0.29 0.15
AA-U	0.28	17957 T	0.12 0.16
U -J	0.39	17943 T	0.12 0.27
------------Webs------------			
M -A	0.30	15044 C	WindLd
A -O	0.55	14997 T	
O -P	0.08	3657 C	
O -B	0.41	9301 C	
B -L	0.12	3778 T	
L -C	0.40	10986 T	
K -H	0.41	11291 T	
K -I	0.31	8874 C	
I -Z	0.08	2304 T	
Z -BB	0.06	2247 C	
AA-BB	0.03	1046 T	
AA-Y	0.05	1591 T	
U -Y	0.03	2015 C	
------Attic Chords (Top)------			
D -S	0.23	13972 C	0.23 0.00
S -R	0.12	13982 C	0.10 0.02
R -Q	0.12	13765 C	0.10 0.02
Q -G	0.23	13755 C	0.23 0.00
-------Attic Webs (Top)-------			
S -E	0.00	223 T	
E -R	0.05	1524 T	
R -T	0.02	1127 C	
R -F	0.04	1309 T	
Q -F	0.00	229 T	

TL Defl -0.98" in L -K L/544
LL Defl -0.50" in L -K L/999
Shear // Grain in A -P 0.45

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	5.0x 7.0	0.7	0.3	0.89
P	MT20	2.0x 4.0	Ctr	Ctr	0.34
B	MT20	6.0x 6.0	Ctr	Ctr	0.93
C	MT20	3.0x 4.0	Ctr	Ctr	0.95
D	MT20	3.0x 5.0	Ctr	Ctr	0.85
E	MT20	7.0x 6.0	1.6-4.3		0.52
T	MT20	2.0x 4.0	Ctr	Ctr	0.12
F	MT20	6.0x 6.0	-1.4-3.8		0.52
G	MT20	3.0x 5.0	Ctr	Ctr	0.85
H	MT20	3.0x 4.0	Ctr	Ctr	0.98
I	MT20	6.0x 6.0	Ctr	Ctr	0.87
BB	MT20	3.0x 5.0	Ctr	Ctr	0.18
Y	MT20	5.0x 6.0	0.2	0.5	0.47
J	MT20	5.0x 7.0	Ctr-0.2		0.75
J	MT20	3.0x 6.0	Ctr	Ctr	0.00
M	MT20	5.0x 9.0	0.8	Ctr	0.27
O	MT20	5.0x 9.0	-1.0	Ctr	0.77
L	MT20	8.0x 8.0	-0.5-1.6		0.70
S1	MT20	7.0x 8.0	Ctr	Ctr	0.68
K	MT20	8.0x 8.0	0.5-1.6		0.71
Z	MT20	5.0x 7.0	Ctr	Ctr	0.15
AA	MT20	10.0x10.0	Ctr-0.5		0.46
U	MT20	2.0x 4.0	Ctr	Ctr	0.13
S	MT20	2.0x 4.0	Ctr	Ctr	0.18
R	MT20	4.0x 8.0	Ctr	Ctr	0.18
Q	MT20	2.0x 4.0	Ctr	Ctr	0.19

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

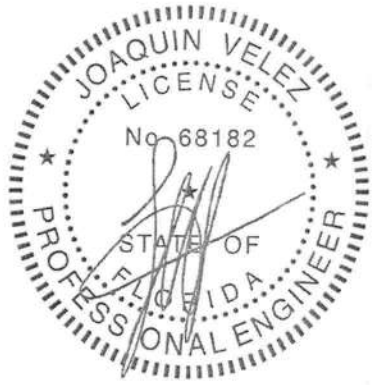
REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2007
TPI 2002
5 COMPLETE TRUSSES REQUIRED.
Fasten together in staggered pattern. (1/2" bolts -OR- SDS0 screws -OR- 16d nails as each layer is applied.)

	----Spacing (In)----		
Rows	Nails	Screws	Bolts
TC 1	5	0	0
BC 2	11	0	24
WB 1	8	8	

Web Connection Exception -- Space screws or nails for the following webs-
O -B @ 4" o.c.
K -I @ 4" o.c.
No bolts in 2x4s or smaller.
Plus use 1/2 In (ASTM-A307) thru bolts at each panel point and on each side of splices in 2x6 or larger chords only.
Fasten each scab (shaded) with 2 rows of 10d nails at 6 In o.c. each row, staggered along entire length.
Design checked for 10 psf non-concurrent LL on BC.

Wind Loads - ANSI / ASCE 7-05
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Unbalanced Loads Checked
Load Factors = 1.00 and 0.00
Max comp. force 20725 Lbs
Max tens. force 19092 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

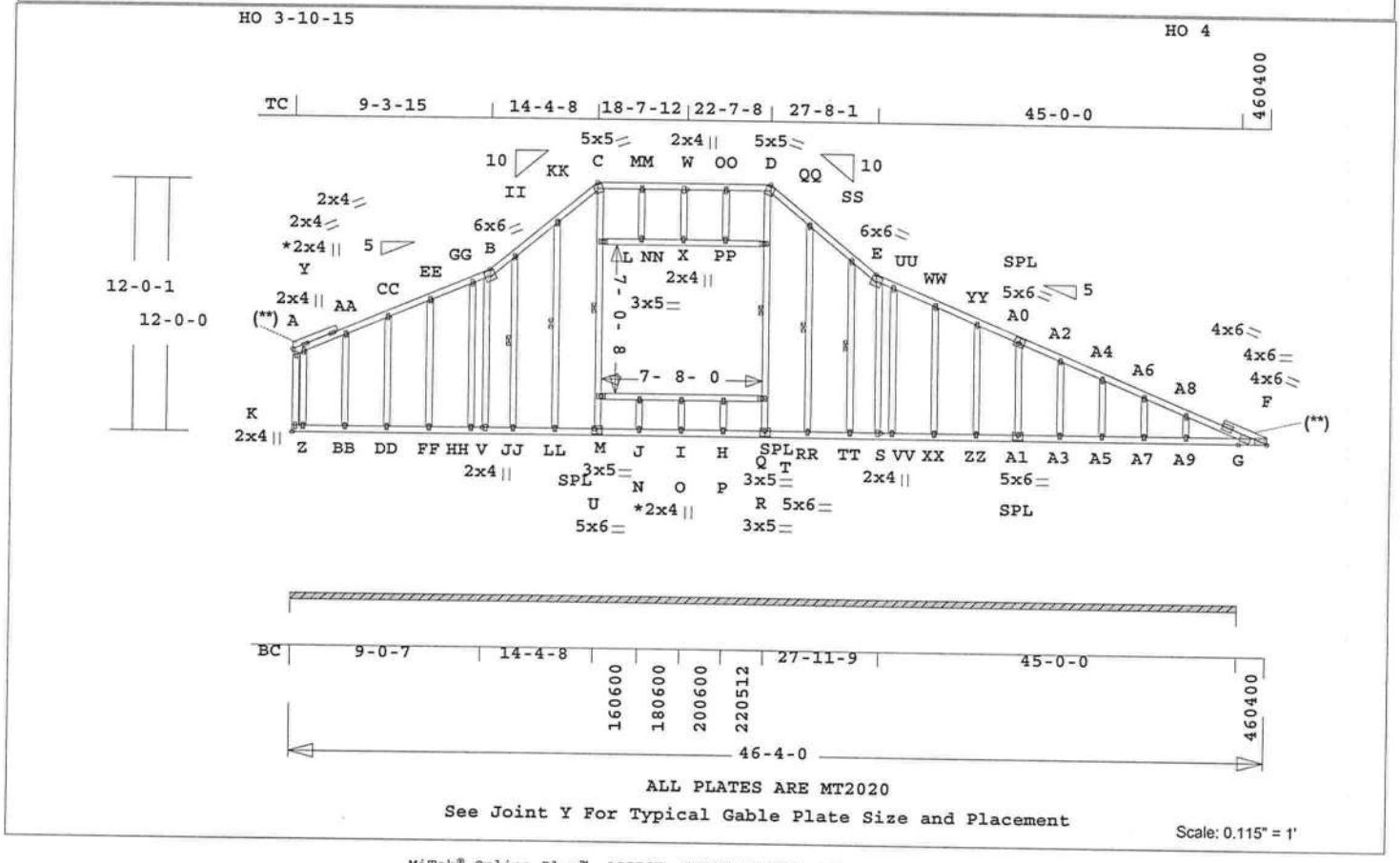


FL Cert. 6634

April 27,2011

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
SHEER	A4GE	2	SP	460400	5	0	0	T4063361

SHEER



Online Plus -- Version 28.0.007
RUN DATE: 27-APR-11

	CSI	-Size-	----Lumber----
TC	0.24	2x 4	SP-#2 (**)
BC	0.31	2x 4	SP-#2
WB	0.18	2x 4	SP-#2
GW	0.30	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	14- 4- 8
TC	24.0"	14- 4- 8	22- 7- 8
TC	Cont.	22- 7- 8	46- 4- 0
BC	Cont.	0- 0- 0	46- 4- 0

One Continuous Lateral Brace
U -C T -D JJ-II LL-KK
RR-QQ TT-SS
Attach CLB with (2)-10d nails at each web.

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
Z	3707	521 U	312 R

Jt	Brg Size	Required
Z	540.0"	0"-to- 540"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -Y	0.03	53 C	0.00 0.03
Y -AA	0.07	87 T	0.01 0.06
AA-CC	0.06	143 T	0.01 0.05
CC-EE	0.05	205 T	0.02 0.03
EE-GG	0.06	249 T	0.03 0.03
GG-B	0.04	274 T	0.03 0.01
B -II	0.07	352 T	0.04 0.03
II-KK	0.07	447 T	0.05 0.02
KK-C	0.11	516 T	0.06 0.05
C -MM	0.24	457 T	0.00 0.24
MM-W	0.10	518 T	0.00 0.10
W -OO	0.11	517 T	0.06 0.05
OO-D	0.24	454 T	0.00 0.24
D -QQ	0.11	515 T	0.06 0.05
QQ-SS	0.08	446 T	0.05 0.03

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 499.1 LBS

SS-E	0.07	350 T	0.04	0.03
E -UU	0.05	271 T	0.03	0.02
UU-WW	0.05	239 T	0.03	0.02
WW-YY	0.04	193 T	0.02	0.02
YY-A0	0.03	186 C	0.00	0.03
A0-A2	0.03	193 C	0.00	0.03
A2-A4	0.03	198 C	0.00	0.03
A4-A6	0.03	202 C	0.00	0.03
A6-A8	0.04	199 C	0.00	0.04
A8-F	0.06	168 C	0.00	0.06
Bottom Chords				
K -Z	0.09	0 T	0.00	0.09
Z -BB	0.04	0 T	0.00	0.04
BB-DD	0.02	0 T	0.00	0.02
DD-FF	0.02	0 T	0.00	0.02
FF-HH	0.02	0 T	0.00	0.02
HH-V	0.01	0 T	0.00	0.01
V -JJ	0.01	0 T	0.00	0.01
JJ-LL	0.02	0 T	0.00	0.02
LL-U	0.15	0 T	0.00	0.15
U -T	0.31	0 T	0.00	0.31
T -RR	0.16	0 T	0.00	0.16
RR-TT	0.02	0 T	0.00	0.02
TT-S	0.01	0 T	0.00	0.01
S -VV	0.01	0 T	0.00	0.01
VV-XX	0.02	0 T	0.00	0.02
XX-ZZ	0.02	0 T	0.00	0.02
ZZ-A1	0.02	0 T	0.00	0.02
A1-A3	0.02	0 T	0.00	0.02
A3-A5	0.02	0 T	0.00	0.02
A5-A7	0.02	0 T	0.00	0.02
A7-A9	0.02	0 T	0.00	0.02
A9-F	0.05	8 T	0.00	0.05
Webs				
K -A	0.10	31 C	0.00	0.10
V -B	0.03	148 T	0.02	0.01
U -M	0.18	295 C	0.00	0.18
M -L	0.03	295 C	0.02	0.01
L -C	0.10	224 C	0.01	0.09
X -W	0.00	67 C		
T -R	0.17	295 C	0.00	0.17
R -Q	0.03	295 C	0.02	0.01
Q -D	0.10	224 C	0.01	0.09
S -E	0.03	140 T	0.02	0.01
Gable Webs				
Z -Y	0.05	116 T	0.01	0.04
BB-AA	0.06	176 T	0.02	0.04
DD-CC	0.05	161 T	0.02	0.03
FF-EE	0.03	123 C	0.01	0.02
HH-GG	0.02	83 C	0.00	0.02
JJ-II	0.02	135 T	0.01	0.01
LL-KK	0.02	126 C	0.01	0.01
NN-MM	0.30	36 C	0.00	0.30
PP-OO	0.30	36 C	0.00	0.30
RR-QQ	0.01	125 C	0.01	0.00
TT-SS	0.01	134 T	0.01	0.00
VV-UU	0.01	81 C	0.01	0.00
XX-WW	0.01	123 C	0.01	0.00
ZZ-YY	0.01	119 C	0.01	0.00
A1-A0	0.01	120 C	0.01	0.00
A3-A2	0.01	119 C	0.00	0.01
A5-A4	0.01	120 C	0.00	0.01
A7-A6	0.02	116 C	0.01	0.01
A9-A8	0.05	141 C	0.01	0.04

TL Defl -0.11" in U -T L/999
LL Defl -0.05" in U -T L/999
Shear // Grain in C -MM 0.21

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	Ctr	Ctr	0.29
Y	MT20	2.0x 4.0	Ctr	Ctr	0.00
AA	MT20	2.0x 4.0	Ctr	Ctr	0.00
CC	MT20	2.0x 4.0	Ctr	Ctr	0.00
EE	MT20	2.0x 4.0	Ctr	Ctr	0.00
GG	MT20	2.0x 4.0	Ctr	Ctr	0.00
B	MT20	6.0x 6.0	Ctr	Ctr	0.42
II	MT20	2.0x 4.0	Ctr	Ctr	0.00
KK	MT20	2.0x 4.0	Ctr	Ctr	0.00
C	MT20	5.0x 5.0	0.8-3.5		0.37
MM	MT20	2.0x 4.0	Ctr	Ctr	0.00
W	MT20	2.0x 4.0	Ctr	Ctr	0.34
OO	MT20	2.0x 4.0	Ctr	Ctr	0.00
D	MT20	5.0x 5.0	-0.8-3.5		0.37
QQ	MT20	2.0x 4.0	Ctr	Ctr	0.00
SS	MT20	2.0x 4.0	Ctr	Ctr	0.00
E	MT20	6.0x 6.0	Ctr	Ctr	0.42
UU	MT20	2.0x 4.0	Ctr	Ctr	0.00
WW	MT20	2.0x 4.0	Ctr	Ctr	0.00
YY	MT20	2.0x 4.0	Ctr	Ctr	0.00
A0	MT20	5.0x 6.0	0.2	0.5	0.38
A2	MT20	2.0x 4.0	Ctr	Ctr	0.00
A4	MT20	2.0x 4.0	Ctr	Ctr	0.00
A6	MT20	2.0x 4.0	Ctr	Ctr	0.00
A8	MT20	2.0x 4.0	Ctr	Ctr	0.00
F	MT20	4.0x 6.0	Ctr-0.3		0.39
K	MT20	2.0x 4.0	Ctr	Ctr	0.34
Z	MT20	2.0x 4.0	Ctr	Ctr	0.00
BB	MT20	2.0x 4.0	Ctr	Ctr	0.00
DD	MT20	2.0x 4.0	Ctr	Ctr	0.00
FF	MT20	2.0x 4.0	Ctr	Ctr	0.00
HH	MT20	2.0x 4.0	Ctr	Ctr	0.00
V	MT20	2.0x 4.0	Ctr	Ctr	0.34
JJ	MT20	2.0x 4.0	Ctr	Ctr	0.00
LL	MT20	2.0x 4.0	Ctr	Ctr	0.00
U	MT20	5.0x 6.0	Ctr-0.5		0.39
T	MT20	5.0x 6.0	Ctr-0.5		0.39
RR	MT20	2.0x 4.0	Ctr	Ctr	0.00
TT	MT20	2.0x 4.0	Ctr	Ctr	0.00
S	MT20	2.0x 4.0	Ctr	Ctr	0.34
VV	MT20	2.0x 4.0	Ctr	Ctr	0.00
XX	MT20	2.0x 4.0	Ctr	Ctr	0.00
ZZ	MT20	2.0x 4.0	Ctr	Ctr	0.00
A1	MT20	5.0x 6.0	Ctr-0.5		0.39
A3	MT20	2.0x 4.0	Ctr	Ctr	0.00
A5	MT20	2.0x 4.0	Ctr	Ctr	0.00
A7	MT20	2.0x 4.0	Ctr	Ctr	0.00
A9	MT20	2.0x 4.0	Ctr	Ctr	0.00
X	MT20	2.0x 4.0	Ctr	Ctr	0.29
NN	MT20	2.0x 4.0	Ctr	Ctr	0.00
PP	MT20	2.0x 4.0	Ctr	Ctr	0.00
L	MT20	3.0x 5.0	Ctr	Ctr	0.19
Q	MT20	3.0x 5.0	Ctr	Ctr	0.19
M	MT20	3.0x 5.0	Ctr	Ctr	0.19
R	MT20	3.0x 5.0	Ctr	Ctr	0.19

3 Gable studs to be attached with 2.0x4.0 plates each end.
REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:

FL Cert. 6634

April 27,2011

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SHEER	*A4GE*	2	SP	460400	5	0	0	*T4063361*

SHEER

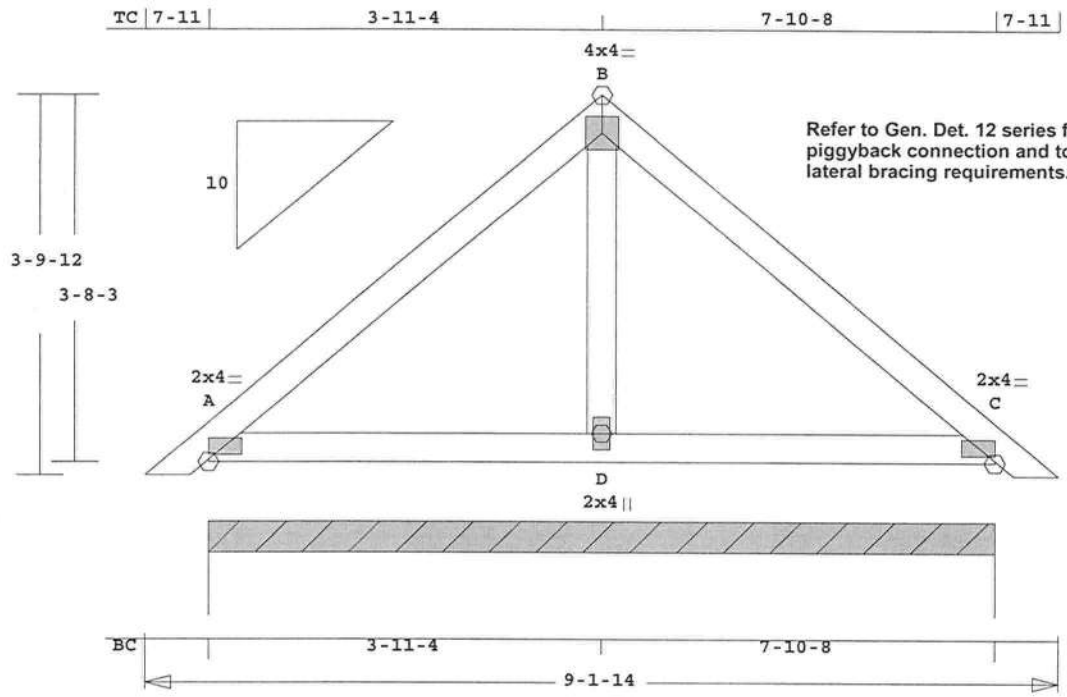
FBC2007
TPI 2002
WARNING Do Not Cut overframe member between outside of truss and first tie-plate to inside of heel plate.
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 295 Lbs
Max tens. force 518 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

FL Cert. 6634

April 27,2011

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SHEER	P1	18	TR	90114	10	7-11	7-11	T4063362

SHEER



ALL PLATES ARE MT2020

Scale: 0.518" = 1'

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 43.1 LBS

Online Plus -- Version 28.0.007
RUN DATE: 27-APR-11

	CSI	-Size-	----Lumber----
TC	0.10	2x 4	SP-#2
BC	0.09	2x 4	SP-#2
WB	0.01	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	9- 1-14
BC	Cont.	0- 0- 0	9- 1-14

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	631	88 U	69 R

Jt	Brg Size	Required
A	94.5"	0"-to- 95"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -B	0.10	217 C	0.02	0.08
B -C	0.10	217 C	0.02	0.08
--------Bottom Chords---------				
A -D	0.09	0 T	0.00	0.09
D -C	0.09	0 T	0.00	0.09
-------------Webs-------------				
D -B	0.01	94 T		

TL Defl 0.00" in D -C L/999
LL Defl 0.00" in D -C L/999
Shear // Grain in A -B 0.10

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	0.1	Ctr	0.58
B	MT20	4.0x 4.0	Ctr	Ctr	0.41
C	MT20	2.0x 4.0	-0.1	Ctr	0.58
D	MT20	2.0x 4.0	Ctr	Ctr	0.12

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

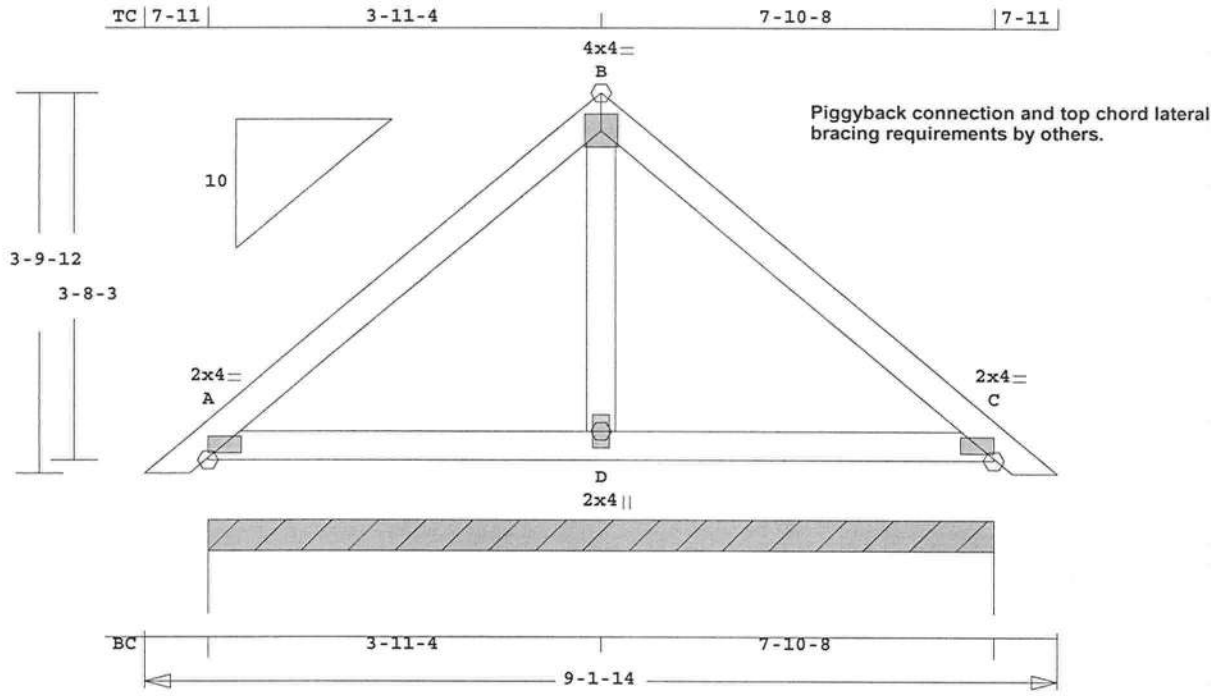
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2007
TPI 2002
OH Loading
Soffit psf 2.0
This truss has been designed for 20.0 psf LL on the B.C. in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C. and any other member.
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 217 Lbs
Max tens. force 171 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

FL Cert. 6634

April 27,2011

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
SHEER	P2	4*2P	TR	90114	10	7-11	7-11	T4063363

SHEER



ALL PLATES ARE MT2020

Scale: 0.518" = 1'

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 43.1 LBS

```
Online Plus -- Version 28.0.007
RUN DATE: 27-APR-11
***************
* 2-Ply Truss *
***************

     CSI -Size- ----Lumber----
TC  0.05  2x 4  SP-#2
BC  0.04  2x 4  SP-#2
WB  0.00  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.     0- 0- 0   9- 1-14
 BC  Cont.     0- 0- 0   9- 1-14

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.15  Fc=1.10  Ft=1.10
BC Fb=1.10  Fc=1.10  Ft=1.10

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A    631    88 U    69 R

Jt   Brg Size   Required
A      94.5"     0"-to-  95"

Plus  9 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -B  0.05   217 C  0.01  0.04
B -C  0.05   217 C  0.01  0.04
--------Bottom Chords---------
A -D  0.04     0 T  0.00  0.04
D -C  0.04     0 T  0.00  0.04
-------------Webs-------------
D -B  0.00    94 T

TL Defl   0.00" in D -C  L/999
LL Defl   0.00" in D -C  L/999
Shear // Grain  in A -B   0.05

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area
Jt Type  Plt Size  X    Y    JSI
A  MT20  2.0x 4.0 0.1 Ctr 0.58
B  MT20  4.0x 4.0 Ctr Ctr 0.41
C  MT20  2.0x 4.0-0.1 Ctr 0.58
D  MT20  2.0x 4.0 Ctr Ctr 0.12

REVIEWED BY:
MiTek Industries, Inc.
 6904 Parke East Blvd.
 Tampa, FL  33610

REFER TO ONLINE PLUS GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
  Mayo Truss Co. Inc.
Analysis Conforms To:
  FBC2007
  TPI 2002
2 COMPLETE TRUSSES REQUIRED.
Fasten together in staggered
  pattern.  (1/2" bolts -OR-
  SDS3   screws -OR- 10d nails
  as each layer is applied.)
          ----Spacing (In)----
    Rows  Nails  Screws  Bolts
  TC  1    12     24       0
  BC  1    12     24       0
  WB  1     8      8
OH Loading
  Soffit psf 2.0
This truss has been designed
  for 20.0  psf LL on the B.C.
  in areas where a rectangle
   3- 6- 0 tall by
   2- 0- 0 wide
  will fit between the B.C.
  and any other member.
Design checked for 10 psf non-
  concurrent LL on BC.

Refer to Gen Det 3 series for
  web bracing and plating.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as
  Components and Claddings*
  for Exterior zone location.
  Wind Speed:          110 mph
  Mean Roof Height:  15-0
  Exposure  Category:    B
  Occupancy Factor  : 1.00
  Building Type: Enclosed
  TC Dead Load:        5.0 psf
  BC Dead Load:        5.0 psf
Max comp. force      217 Lbs
Max tens. force      171 Lbs
Connector Plate Fabrication
  Tolerance = 20%
This truss is designed for a
  creep factor of 1.5  which
  is used to calculate total
  load deflection.
```

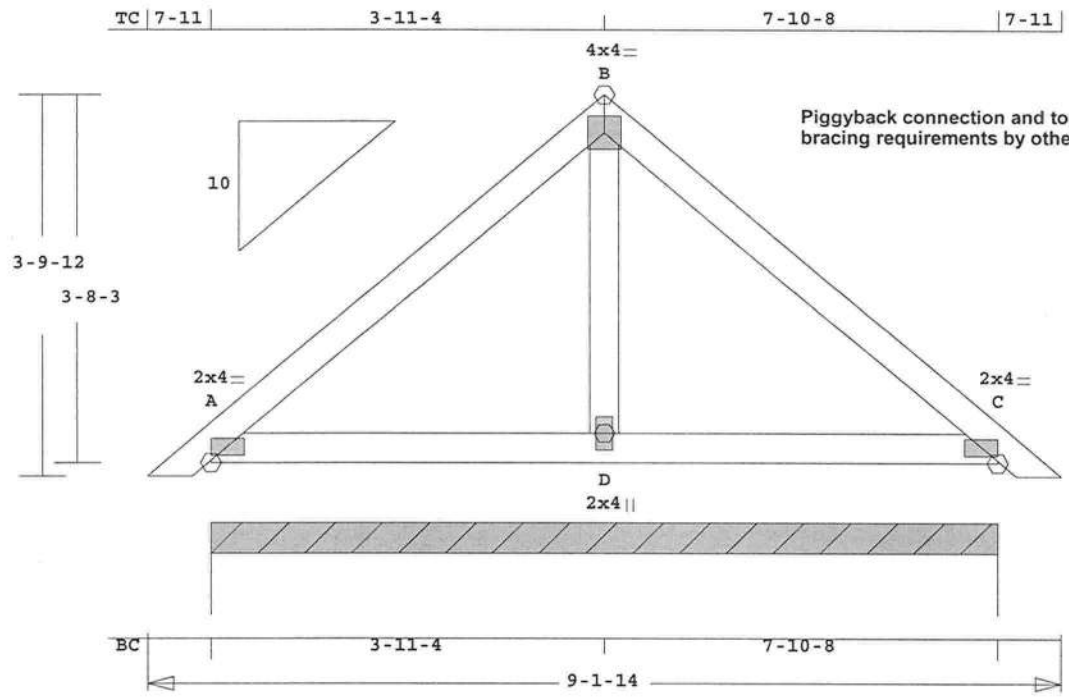
JOAQUIN VELEZ LICENSE No. 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL Cert. 6634

April 27,2011

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	*Engineering*
SHEER	*P3*	2*5P	TR	90114	10	7-11	7-11	*T4063364*

SHEER



Piggyback connection and top chord lateral bracing requirements by others.

ALL PLATES ARE MT2020

Scale: 0.518" = 1'

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 43.1 LBS

```
Online Plus -- Version 28.0.007
RUN DATE: 27-APR-11
***************
* 5-Ply Truss *
***************

     CSI -Size- ----Lumber----
TC  0.01  2x 4  SP-#2
BC  0.01  2x 4  SP-#2
WB  0.00  2x 4  SP-#2

Brace truss as follows:
      O.C.      From       To
 TC  Cont.    0- 0- 0  9- 1-14
 BC  Cont.    0- 0- 0  9- 1-14

psf-Ld  Dead  Live
TC       10.0  20.0
BC       10.0   0.0
TC+BC    20.0  20.0
Total    40.0   Spacing  24.0"
Lumber Duration Factor  1.25
Plate  Duration Factor  1.25
TC Fb=1.15  Fc=1.10  Ft=1.10
BC Fb=1.10  Fc=1.10  Ft=1.10

Total Load Reactions (Lbs)
Jt  Down  Uplift  Horiz-
A    631    88 U    69 R

Jt   Brg Size   Required
A      94.5"     0"-to-  95"

Plus  9 Wind Load Case(s)
Plus  1 UBC LL Load Case(s)
Plus  1 DL Load Case(s)

Membr  CSI  P Lbs  Axl-CSI-Bnd
----------Top Chords----------
A -B  0.01   217 C  0.00  0.01
B -C  0.01   217 C  0.00  0.01
--------Bottom Chords---------
A -D  0.01     0 T  0.00  0.01
D -C  0.01     0 T  0.00  0.01
-------------Webs-------------
D -B  0.00    94 T

TL Defl   0.00" in A -D  L/999
LL Defl   0.00" in A -D  L/999
Shear // Grain  in A -B   0.02
```

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	0.1 Ctr		0.58
B	MT20	4.0x 4.0	Ctr Ctr		0.41
C	MT20	2.0x 4.0	-0.1 Ctr		0.58
D	MT20	2.0x 4.0	Ctr Ctr		0.12

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2007
TPI 2002
5 COMPLETE TRUSSES REQUIRED.
Fasten together in staggered pattern. (1/2" bolts -OR- SDS0 screws -OR- 16d nails as each layer is applied.)

	----Spacing (In)---- Rows	Nails	Screws	Bolts
TC	1	12	0	0
BC	1	12	0	0
WB	1	8	8	

No bolts in 2x4s or smaller.
Plus use 1/2 In (ASTM-A307) thru bolts at each panel point and on each side of splices in 2x6 or larger chords only.
OH Loading
Soffit psf 2.0
This truss has been designed for 20.0 psf LL on the B.C. in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C. and any other member.
Design checked for 10 psf non-concurrent LL on BC.

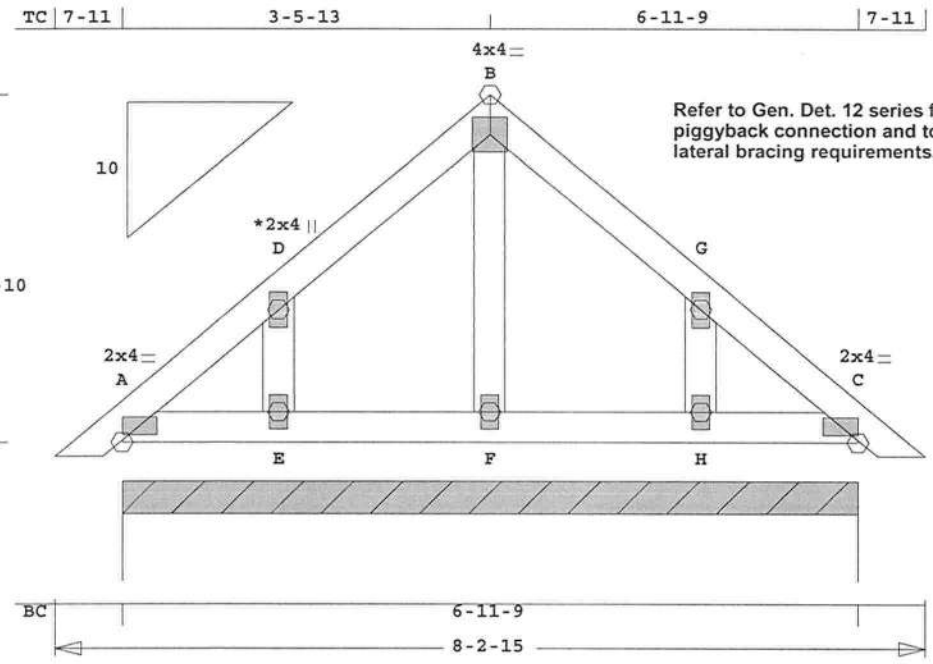
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 217 Lbs
Max tens. force 171 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

FL Cert. 6634

April 27,2011

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SHEER	P4GE	2	TR	80215	10	7-11	7-11	T4063365

SHEER



Refer to Gen. Det. 12 series for piggyback connection and top chord lateral bracing requirements.

ALL PLATES ARE MT2020

See Joint D For Typical Gable Plate Size and Placement

Scale: 0.548" = 1'

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 42.5 LBS

Online Plus -- Version 28.0.007
RUN DATE: 27-APR-11

	CSI	-Size-	----Lumber----
TC	0.02	2x 4	SP-#2
BC	0.02	2x 4	SP-#2
GW	0.01	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	8- 2-15
BC	Cont.	0- 0- 0	8- 2-15

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	559	78 U	60 R

Jt	Brg Size	Required
A	83.6"	0"-to- 84"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
----------Top Chords----------			
A -D	0.02	39 C	0.00 0.02
D -B	0.02	64 C	0.00 0.02
B -G	0.02	64 C	0.00 0.02
G -C	0.02	39 C	0.00 0.02
--------Bottom Chords---------			
A -E	0.01	1 T	0.00 0.01
E -F	0.02	0 T	0.00 0.02
F -H	0.02	0 T	0.00 0.02
H -C	0.01	1 T	0.00 0.01
----------Gable Webs----------			
E -D	0.01	138 C	
F -B	0.00	64 C	
H -G	0.01	138 C	

TL Defl 0.00" in E -F L/999
LL Defl 0.00" in E -F L/999
Shear // Grain in D -B 0.06

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	0.1	Ctr	0.58
D	MT20	2.0x 4.0	Ctr	Ctr	0.00
B	MT20	4.0x 4.0	Ctr	Ctr	0.41
G	MT20	2.0x 4.0	Ctr	Ctr	0.00
C	MT20	2.0x 4.0	-0.1	Ctr	0.58
E	MT20	2.0x 4.0	Ctr	Ctr	0.00
F	MT20	2.0x 4.0	Ctr	Ctr	0.00
H	MT20	2.0x 4.0	Ctr	Ctr	0.00

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2007
TPI 2002
OH Loading
Soffit psf 2.0
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00

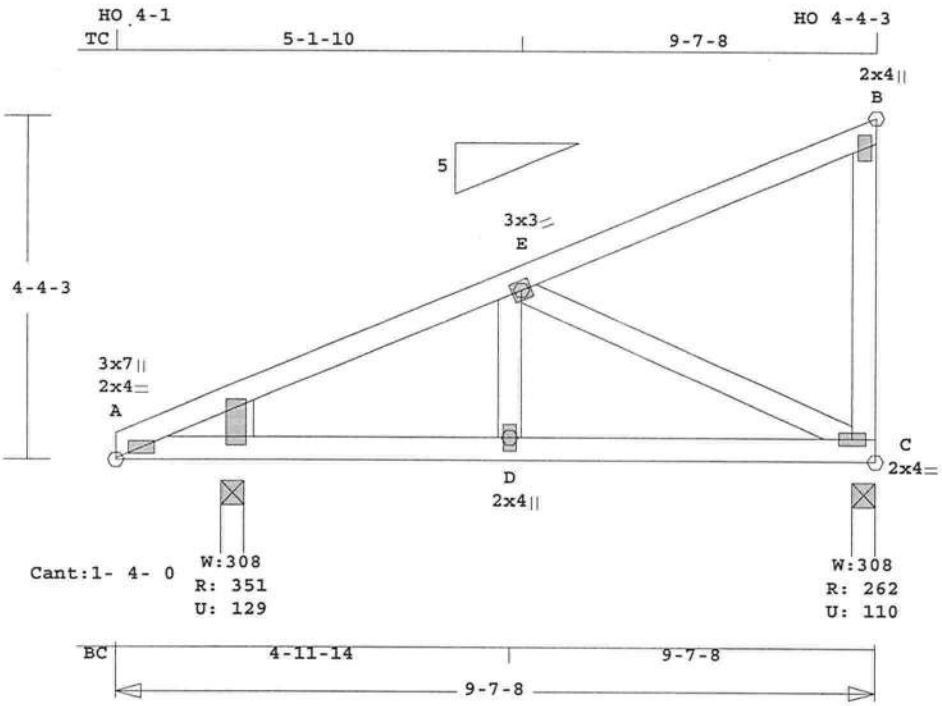
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 138 Lbs
Max tens. force 131 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

FL Cert. 6634

April 27,2011

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
SHEER	M1	34	MONO	90708	5	0	0	T4063366

SHEER



ALL PLATES ARE MT2020

Scale: 0.409" = 1'

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 60.5 LBS

Online Plus -- Version 28.0.007
RUN DATE: 27-APR-11

	CSI	-Size-	----Lumber----
TC	0.20	2x 4	SP-#2
BC	0.18	2x 4	SP-#2
WB	0.10	2x 4	SP-#2
WG	---	2x 6	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	9- 7- 8
BC	Cont.	0- 0- 0	9- 7- 8

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 19.1"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
A	352	130 U	40 R
C	262	110 U	112 R

Jt	Brg Size	Required
A	3.5"	1.5"
C	3.5"	1.5"

Plus 7 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd	
----------Top Chords----------				
A -E	0.17	392 T	0.05	0.12
E -B	0.20	52 C	0.00	0.20
--------Bottom Chords---------				
A -D	0.18	352 C	0.04	0.14
D -C	0.13	352 C	0.00	0.13
-------------Webs-------------				
D -E	0.01	205 C		
E -C	0.10	480 T		
C -B	0.06	136 T	WindLd	

TL Defl -0.03" in D -C L/999
LL Defl -0.01" in D -C L/999
Shear // Grain in E -B 0.14

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	Ctr	Ctr	0.68
A	MT20	3.0x 7.0	Ctr	Ctr	0.00
E	MT20	3.0x 3.0	Ctr	Ctr	0.32
B	MT20	2.0x 4.0	Ctr	Ctr	0.13
D	MT20	2.0x 4.0	Ctr	Ctr	0.12
C	MT20	2.0x 4.0	Ctr	Ctr	0.41

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2007
TPI 2002
This truss has been designed for 20.0 psf LL on the B.C. in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C. and any other member.
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as
Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00

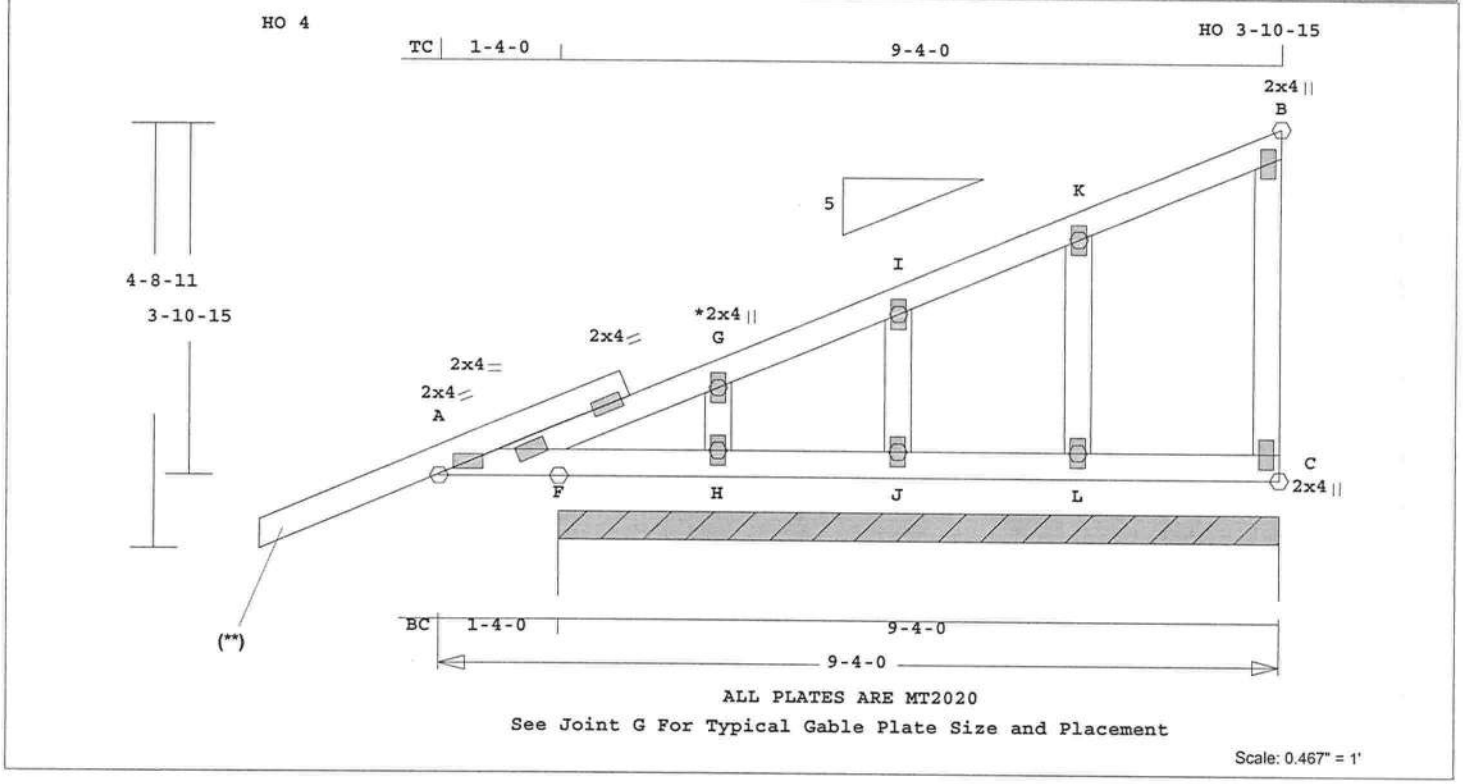
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
User-defined wind-exposed BC regions --From-- ---To---
1- 4- 0 9- 7- 8
Max comp. force 352 Lbs
Max tens. force 480 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

FL Cert. 6634

April 27,2011

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
SHEER	M2GE	2	MONO	90400	5	0	0	T4063367

SHEER



ALL PLATES ARE MT2020

See Joint G For Typical Gable Plate Size and Placement

Scale: 0.467" = 1'

MiTek® Online Plus™ APPROX. TRUSS WEIGHT: 59.1 LBS

Online Plus -- Version 28.0.007
RUN DATE: 27-APR-11

	CSI	-Size-	----Lumber----
TC	0.06	2x 4	SP-#2 (**)
BC	0.04	2x 4	SP-#2
WB	0.08	2x 4	SP-#2
GW	0.02	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	9- 4- 0
BC	Cont.	0- 0- 0	9- 4- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 19.1"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
F	595	101 U	100 R

Jt	Brg Size	Required
F	96.0"	16"-to- 112"

Plus 7 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -G	0.02	81 C	0.00 0.02
G -I	0.02	70 C	0.00 0.02
I -K	0.03	43 C	0.00 0.03
K -B	0.06	45 C	0.00 0.06
Bottom Chords			
A -H	0.02	5 T	0.00 0.02
H -J	0.01	0 T	0.00 0.01
J -L	0.01	0 T	0.00 0.01
L -C	0.04	0 T	0.00 0.04
Webs			
C -B	0.08	81 T	0.01 0.07
Gable Webs			
H -G	0.02	92 C	0.01 0.01
J -I	0.01	96 T	0.01 0.00
L -K	0.02	150 T	0.02 0.00

TL Defl 0.00" in L -C L/999
LL Defl 0.00" in L -C L/999
Shear // Grain in K -B 0.09

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	2.0x 4.0	Ctr	Ctr	0.68
G	MT20	2.0x 4.0	Ctr	Ctr	0.00
I	MT20	2.0x 4.0	Ctr	Ctr	0.00
K	MT20	2.0x 4.0	Ctr	Ctr	0.00
B	MT20	2.0x 4.0	Ctr	Ctr	0.13
H	MT20	2.0x 4.0	Ctr	Ctr	0.00
J	MT20	2.0x 4.0	Ctr	Ctr	0.00
L	MT20	2.0x 4.0	Ctr	Ctr	0.00
C	MT20	2.0x 4.0	Ctr	Ctr	0.12

REVIEWED BY:
MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ONLINE PLUS GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2007
TPI 2002
WARNING Do Not Cut overframe member between outside of truss and first tie-plate to inside of heel plate.
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as

Components and Claddings* for Exterior zone location.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 103 Lbs
Max tens. force 150 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

FL Cert. 6634

April 27,2011

ONLINE PLUS GENERAL NOTES & SYMBOLS

108

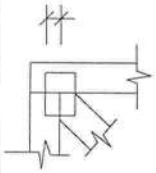
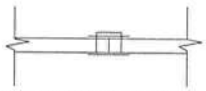


PLATE LOCATION

Center plates on joints unless otherwise noted in plate list or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108)

FLOOR TRUSS SPLICE (3X2, 4X2, 6X2)



(W) = Wide Face Plate
(N) = Narrow Face Plate

LATERAL BRACING

Designates the location for continuous lateral bracing (CLB) for support of individual truss members only. CLBs must be properly anchored or restrained to prevent simultaneous buckling of adjacent truss members.

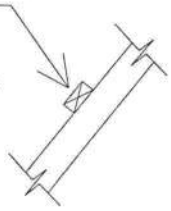
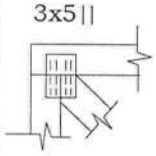


PLATE SIZE AND ORIENTATION

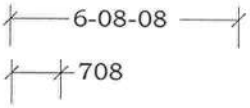
3x5||

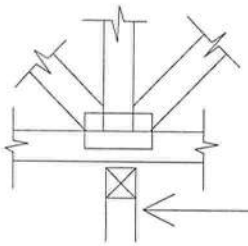


The first dimension is the width measured perpendicular to slots. The second dimension is the length measured parallel to slots. Plate orientation, shown next to plate size, indicates direction of slots in connector plates.

DIMENSIONS

All dimensions are shown in FT-IN-SX (i.e. 6'-8.5" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).





W = Actual Bearing Width (IN-SX)
R = Reaction (lbs.)
U = Uplift (lbs.)

BEARING

When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before trusses are installed. If necessary, shim bearings to assure solid contact with truss.

Metal connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearing at each end, unless indicated otherwise. Cutting and fabrication shall be performed using equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and the attached truss designs are not applicable for use with fire retardant lumber and some preservative treatments. Nails specified on Truss Design Drawings refer to common wire nails, except as noted. The attached design drawings were prepared in accordance with " National Design Specifications for Wood Construction" (AF & PA), " National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafters.

Mitek Industries Inc. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to "Building Component Safety Information" (BCSI 1) as published by Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, Virginia 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and " dominoing ". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that design loads utilized on these drawings meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records. When truss hangers are specified on the Truss Design Drawing, they must be installed per manufacturer's details and specifications.

FURNISH A COPY OF THE ATTACHED TRUSS DESIGN DRAWINGS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE DRAWINGS AND VERIFY THAT DATA, INCLUDING DIMENSIONS & LOADS, CONFORM TO ARCHITECTURAL PLAN / SPECS AND THE TRUSS PLACEMENT DIAGRAM FURNISHED BY THE TRUSS MANUFACTURER.

MiTek®
POWER TO PERFORM.™

MiTek Industries, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Tel: 813-972-1135
Fax: 813-971-6117

PASS #123

Columbia County Building Permit Application

☑ 417 Bedenbaugh Liability

For Office Use Only Application # 1106-37 Date Received 6/17/11 By LH Permit # 29591

Zoning Official BLK Date 27 JUNE 2011 Flood Zone X Land Use A-1 Zoning A-1

FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner T.C. Date 6-24-11

Comments

☑ NOC ☑ EH ☑ Deed or PA ☑ Site Plan ☑ State Road Info ☑ Existing Well letter ☐ 911 Sheet ☐ Parent Parcel #

☐ Dev Permit # ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter

IMPACT FEES: EMS Fire Corr ☑ Sub VF Form

Road/Code School = TOTAL (Suspended) ☑ App Fee Paid

Septic Permit No. 11-0197 Fax 386-752-3175

Name Authorized Person Signing Permit Gregory Adam A. Bedenbaugh Phone 386-623-1568

Address 390 SW Bedenbaugh Lane 32025 Lake City

Owners Name Janice Sheer Robert Kebler Phone

911 Address 650 NE Fallow Dr White Springs FL 32096

Contractors Name Gregory A Bedenbaugh Phone 386-623-1568

Address 390 SW Bedenbaugh Lane 32025 Lake City FL

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Marty J Humphries 7932 240th ST OBRIEN 320

Mortgage Lenders Name & Address N/A

Circle the correct power company – FL Power & Light – Clay Elec. – Suwannee Valley Elec – Progress Energy

Property ID Number 05-1S-17 04492-012 Estimated Cost of Construction 150,000

Subdivision Name Deer Run Preserve Lot 4 Block Unit Phase

Driving Directions 441 N Turn right at deer run preserve (Lot 4) on Fallow DR then 1st on ® See existing barn

Number of Existing Dwellings on Property 1 Barn

Construction of New Home Total Acreage 20 Lot Size 750 x 120

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 28'

Actual Distance of Structure from Property Lines - Front 400' Side 380' Side 765' Rear 297'

Number of Stories 2 Heated Floor Area 3389 Total Floor Area ~~3389~~ 4008 Roof Pitch 10/12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction. **CODE:** Florida Building Code 2007 with 2009 Supplements and the 2008 National Electrical Code.

elec #514

Left Message on 6-27-11

Residential System Sizing Calculation

Summary

Sheer & Kebler
, FL

Project Title:
1106068

Class 3 Rating
Registration No. 0
Climate: North

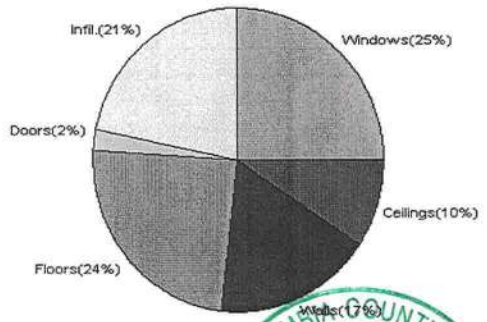
6/15/2011

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**41521**	**Btuh**	**Total cooling load calculation**	**41968**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	120.4	50000	Sensible (SHR = 0.75)	102.8	37500
Heat Pump + Auxiliary(0.0kW)	120.4	50000	Latent	228.4	12500
			Total (Electric Heat Pump)	119.1	50000

WINTER CALCULATIONS

Winter Heating Load (for 3389 sqft)

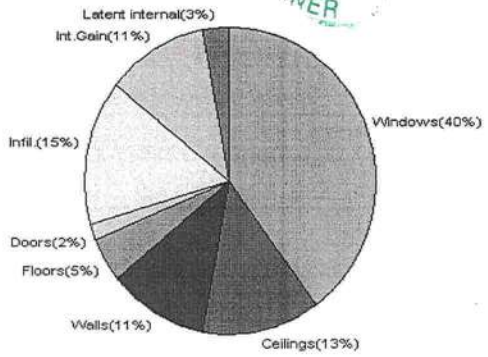
Load component			Load	
Window total	324	sqft	10426	Btuh
Wall total	2203	sqft	7234	Btuh
Door total	73	sqft	948	Btuh
Ceiling total	3355	sqft	3953	Btuh
Floor total	2475	sqft	10104	Btuh
Infiltration	219	cfm	8854	Btuh
Duct loss			0	Btuh
Subtotal			**41521**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**41521**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 3389 sqft)

Load component			Load	
Window total	324	sqft	16688	Btuh
Wall total	2203	sqft	4595	Btuh
Door total	73	sqft	717	Btuh
Ceiling total	3355	sqft	5556	Btuh
Floor total			1983	Btuh
Infiltration	117	cfm	2176	Btuh
Internal gain			4780	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**36495**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			4273	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**5473**	**Btuh**
TOTAL HEAT GAIN			**41968**	**Btuh**



Powered by ACCA MANUAL J

For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 6/15/11 EIAN BEAMGLEY

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Sheer & Kebler
, FL

Project Title:
1106068

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

6/15/2011

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	NW	22.2	32.2	715 Btuh
3	2, Clear, Metal, 0.87	NW	16.0	32.2	515 Btuh
4	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
5	2, Clear, Metal, 0.87	SE	66.7	32.2	2147 Btuh
6	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	SW	9.0	32.2	290 Btuh
8	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
9	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
10	2, Clear, Metal, 0.87	SE	60.0	32.2	1931 Btuh
11	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
	Window Total		324(sqft)		10426 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2203	3.3	7234 Btuh
	Wall Total		2203		7234 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Exterior		53	12.9	689 Btuh
	Door Total		73		948Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	3355	1.2	3953 Btuh
	Ceiling Total		3355		3953Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Stem Wall with Stem Wall I	0	2475.0 sqft	4.1	10104 Btuh
	Floor Total		2475		10104 Btuh
			Zone Envelope Subtotal:		32666 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.43	30501	218.6	8854 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**41521 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Sheer & Kebler
, FL

Project Title:
1106068

Class 3 Rating
Registration No. 0
Climate: North

6/15/2011

WHOLE HOUSE TOTALS

	Subtotal Sensible	41521 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	41521 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Sheer & Kebler
, FL

Project Title:
1106068

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 6/15/2011

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft	7ft.	45.0	0.0	45.0	29	60	2702 Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft	8ft.	22.2	0.0	22.2	29	60	1333 Btuh
3	2, Clear, 0.87, None,N,N	NW	1.5ft	6ft.	16.0	0.0	16.0	29	60	961 Btuh
4	2, Clear, 0.87, None,N,N	NE	0ft.	0ft.	30.0	0.0	30.0	29	60	1801 Btuh
5	2, Clear, 0.87, None,N,N	SE	9.5ft	8ft.	66.7	66.7	0.0	29	63	1932 Btuh
6	2, Clear, 0.87, None,N,N	SE	9.5ft	7ft.	30.0	30.0	0.0	29	63	869 Btuh
7	2, Clear, 0.87, None,N,N	SW	0ft.	0ft.	9.0	0.0	9.0	29	63	563 Btuh
8	2, Clear, 0.87, None,N,N	SW	0ft.	0ft.	15.0	0.0	15.0	29	63	938 Btuh
9	2, Clear, 0.87, None,N,N	NE	0ft.	0ft.	15.0	0.0	15.0	29	60	901 Btuh
10	2, Clear, 0.87, None,N,N	SE	0ft.	0ft.	60.0	0.0	60.0	29	63	3752 Btuh
11	2, Clear, 0.87, None,N,N	SW	0ft.	0ft.	15.0	0.0	15.0	29	63	938 Btuh
	Window Total				324 (sqft)					16688 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	2202.9	2.1	4595 Btuh
	Wall Total		2203 (sqft)		4595 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	9.8	196 Btuh
2	Insulated - Exterior	53.2	9.8	521 Btuh
	Door Total	73 (sqft)		717 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	3355.0	1.7	5556 Btuh
	Ceiling Total		3355 (sqft)		5556 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Stem Wall with Stem Wall Insul	0.0	2475 (sqft)	0.8	1983 Btuh
	Floor Total		2475.0 (sqft)		1983 Btuh

			Zone Envelope Subtotal:	29539 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.23	30501	116.9	2176 Btuh

Internal gain		Occupants	Btuh/occupant		Appliance	Load
		6	X 230	+	3400	4780 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)				DGM = 0.00	0.0 Btuh
					Sensible Zone Load	**36495 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Sheer & Kebler

, FL

Project Title:
1106068

Class 3 Rating
Registration No. 0
Climate: North

6/15/2011

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**36495 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**36495 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**36495 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	4273 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**5473 Btuh**
	TOTAL GAIN	**41968 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

Columbia County Property Appraiser

DB Last Updated: 5/3/2011

2010 Tax Year

Tax Collector | Tax Estimator | Property Card | Parcel List Generator | Interactive GIS Map | Print

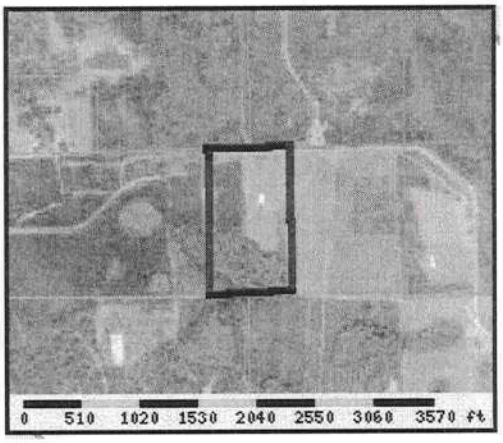
Parcel: 05-1S-17-04492-012

<< Next Lower Parcel | Next Higher Parcel >>

Search Result: 1 of 1

Owner & Property Info

Owner's Name	SHEER JANICE & ROBERT KEBLER		
Mailing Address	519 NE 10TH AVE POMPANO BEACH, FL 33060		
Site Address	10TH AVE		
Use Desc. (code)	TIMBERLAND (005500)		
Tax District	3 (County)	**Neighborhood**	1117
Land Area	20.040 ACRES	**Market Area**	03
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		
BEG AT NE COR OF SW1/4, RUN W 350.48 FT, S 1246.11 FT, E 701.41 FT, N 1246.33 FT, W 348.22 FT TO POB. (AKA TRACT #4) WD 1122-2272			



Property & Assessment Values

2010 Certified Values		
Mkt Land Value	cnt: (1)	$50,012.00
Ag Land Value	cnt: (2)	$1,928.00
Building Value	cnt: (0)	$0.00
XFOB Value	cnt: (0)	$0.00
Total Appraised Value		$51,940.00
Just Value		$82,412.00
Class Value		$51,940.00
Assessed Value		$51,940.00
Exempt Value		$0.00
Total Taxable Value		Cnty: $51,940 Other: $51,940 | Schl: $51,940

2011 Working Values

NOTE:
2011 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Show Working Values

Sales History

Show Similar Sales within 1/2 mile

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
6/15/2007	1122/2272	WD	V	Q		$142,300.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0040	BARN,POLE	2010	$7,050.00	0002820.000	47 x 60 x 0	(000.00)
0261	PRCH, UOP	2010	$1,008.00	0000144.000	12 x 12 x 0	(000.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
005500	TIMBER 2 (AG)	8 AC	1.00/1.00/1.00/1.00	$241.00	$1,928.00

>> **Print as PDF** <<

```
------------------------------------------------------------------------------------------------------------------
BEG AT NE COR OF SW1/4, RUN W     SHEER JANICE & ROBERT KEBLER   05-1S-17-04492-012            Columbia County  2011 R
350.48 FT, S 1246.11 FT, E        519 NE 10TH AVE                                                    CARD 001 of 001
701.41 FT, N 1246.33 FT, W        POMPANO BEACH, FL 33060                    PRINTED  5/03/2011 12:38        BY  JEFF
348.22 FT TO POB.                                                            APPR     3/02/2011 DFRP
------------------------------------------------------------------------------------------------------------------
BUSE                         AE?             HTD AREA        .000 INDEX     1117.00 DIST 3          PUSE  005500 TIMBERLAND 80-8
MOD              BATH                        EFF AREA      60.361 E-RATE       .000 INDX  STR   5- 1S- 17
EXW              FIXT                        RCN                                    AYB   MKT AREA 03                 0 BLDG
  %              BDRM                        %GOOD              BLDG VAL            EYB   (PUD1                   8,058 XFOB
RSTR             RMS                ------------------------------------------------      AC       20.040        45,135 LAND
RCVR             UNTS               FIELD CK:                                             NTCD                    1,928 CLAS
  %              C-W%               LOC:                                                  APPR CD                29,160 MKTUSE
INTW             HGHT                                                                     CNDO                   82,353 JUST
  %              PMTR                                                                     SUBD                   55,121 APPR
FLOR             STYS                                                                     BLK
  %              ECON                                                                     LOT                         0 SOHD
HTTP             FUNC                                                                     MAP#                        0 ASSD
A/C              SPCD                                                                                                 0 EXPT
QUAL             DEPR                                                                     TXDT     003                0 COTXBL
FNDN             UD-1
SIZE             UD-2                                                                  ------------- BLDG TRAVERSE ------------
CEIL             UD-3
ARCH             UD-4
FRME             UD-5
KTCH             UD-6
WNDO             UD-7
CLAS             UD-8
OCC              UD-9
COND                %                                                                ---------------- PERMITS ----------------
SUB    A-AREA  %  E-AREA   SUB VALUE                                                  NUMBER      DESC           AMT    ISSUED
                                                                                     27943    PUMP/UTPOL          50  7/13/2009

                                                                                     ------------------ SALE ------------------
                                                                                     BOOK   PAGE     DATE                 PRICE
                                                                                       1122    2272  6/15/2007 Q V        142300
                                                                                     GRANTOR ZACHARIAH P COOK & KIM N HEITZMAN
                                                                                     GRANTEE JANICE SHEER & ROBERT KEBLER (BOTH

                                                                                     GRANTOR
TOTAL                               ------------------------------------------------ GRANTEE
-------EXTRA FEATURES---------------------------------- FIELD CK:  -------------------------------------------
AE BN  CODE     DESC       LEN   WID HGHT QTY QL    YR  ADJ        UNITS UT      PRICE   ADJ UT PR   SPCD %    %GOOD  XFOB VALUE
Y     0040   BARN,POLE      47    60        1     2010 1.00     2820.000 SF      2.500       2.500             100.00       7,050
Y     0261   PRCH, UOP      12    12        1     2010 1.00      144.000 SF      7.000       7.000             100.00       1,008

------------------------------------------------------------------------------------------------------------------
    LAND    DESC       ZONE  ROAD {UD1 {UD3 FRONT DEPTH  FIELD CK:
AE  CODE               TOPO  UTIL {UD2 {UD4  BACK   DT     ADJUSTMENTS             UNITS UT      PRICE   ADJ UT PR    LAND VALUE
N 005500 TIMBER 2            0013                        1.00 1.00 1.00 1.00      8.000  AC    241.000      241.00       1,928AG

N 009910 MKT.VAL.AG                                      1.00 1.00 1.00 1.00      8.000  AC
```

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787
PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 5/6/2011 **DATE ISSUED:** 6/17/2011

ENHANCED 9-1-1 ADDRESS:

650 NE FALLOW DR

WHITE SPRINGS FL 32096

PROPERTY APPRAISER PARCEL NUMBER:

05-1S-17-04492-012

Remarks:

ADDRESS FOR PROPOSED RESIDENTIAL STRUCTURE ON PARCEL.

Address Issued By: _____

Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

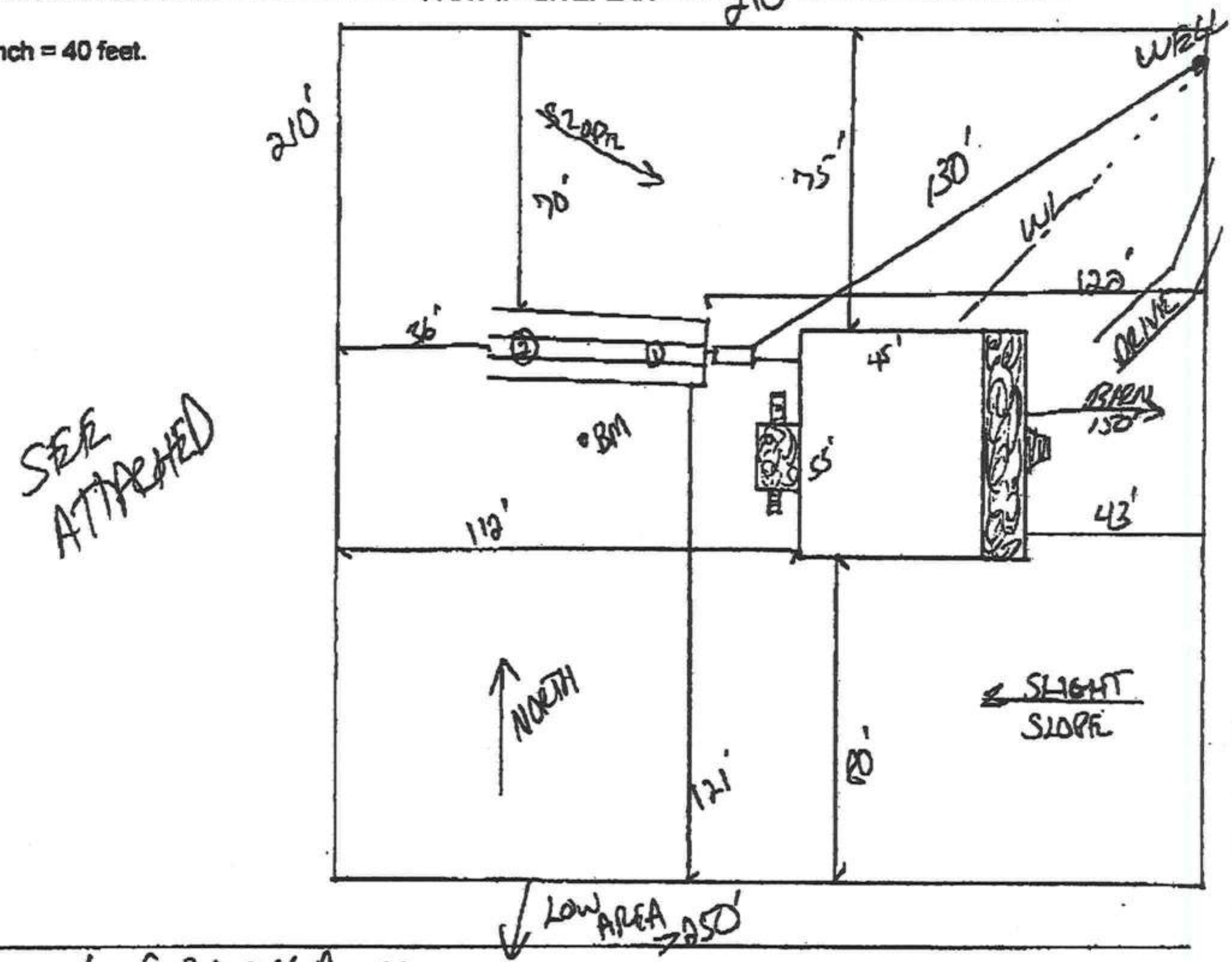
2016

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 11-0197

SHEER ---------- PART II - SITEPLAN ----------

Scale: 1 inch = 40 feet.



Notes: 1 of 20.04 Acres

Site Plan submitted by: Rody D F— MASTER CONTRACTOR

Plan Approved X Not Approved ____ Date 4-22-11

By Sallie Ford Env. Health Director County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO. 100933
DATE PAID: 4-18-11
FEE PAID: 515.00
RECEIPT #: 1592306

APPLICATION FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: Janice Sheer

AGENT: ROCKY FORD, A & B CONSTRUCTION TELEPHONE: 386-497-2311

MAILING ADDRESS: P.O. BOX 39 FT. WHITE, FL, 32038

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 4 BLOCK: na SUB: Deer Run Preserve PLATTED: unrec.

PROPERTY ID #: 5-1S-17-04492-012 ZONING: Ag. I/M OR EQUIVALENT: [Y / (N)

PROPERTY SIZE: 20.04 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / (N)] DISTANCE TO SEWER: — FT

PROPERTY ADDRESS: NE Fallow Drive, White Springs, FL 32096

DIRECTIONS TO PROPERTY: 441 North, Apprx 13 miles north of I-10 TR on NE Fallow Dr, Approx 1/2 mile to drive on right

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

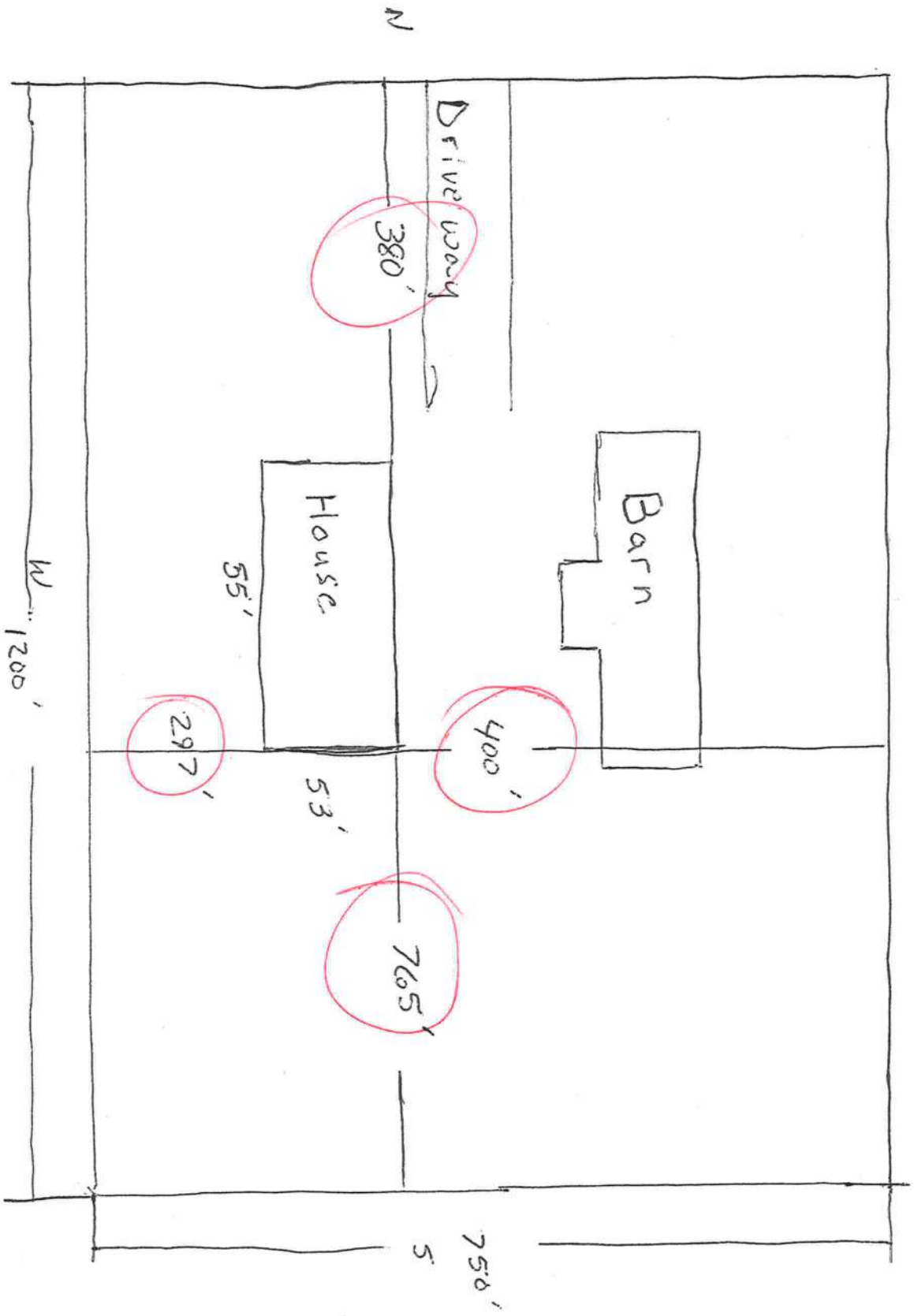
Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	SF Residential	3	3389	
2				
3				

[N] Floor/Equipment Drains [N] Other (Specify) _____

SIGNATURE: Rocky D Ford DATE: 4/14/2011

DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC

Janice Sheer & Robert Keebler
Property ID# 04492-012



NOTICE OF COMMENCEMENT

Clerk's Office Stamp

Inst 201112009237 Date:6/17/2011 Time:3:14 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1216 P:1494

Tax Parcel Identification Number:

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes. the following information is provided in this **NOTICE OF COMMENCEMENT.**

1. Description of property *(legal description)*: 05 - 1S - 17 - 04492 - 012
   a) Street *(job)* Address:
2. General description of improvements: Single Family Residence
3. Owner Information
   a) Name and address: Janice Sheer & Robert Kebler
   b) Name and address of fee simple titleholder (if other than owner)
   c) Interest in property
4. Contractor Information
   a) Name and address: Top Flight Construction Co. Inc
   b) Telephone No.: 386 - 623 - 1568 Fax No. (Opt.) 386 - 752 - 3175
5. Surety Information
   a) Name and address:
   b) Amount of Bond: N/A
   c) Telephone No.: Fax No. (Opt.)
6. Lender
   a) Name and address:
   b) Phone No.
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address:
   b) Telephone No.: Fax No. (Opt.)
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:
   a) Name and address:
   b) Telephone No.: Fax No. (Opt.)
9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is specified)**:

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. Robert P Kebler
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

Robert Kebler
Printed Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 17 day of June, 20 11, by: Robert Kebler as owner **(type of authority, e.g. officer, trustee, attorney fact) for** Robert Kebler **(name of party on behalf of whom instrument was executed).**

Personally Known ✓ OR Produced Identification ____ Type

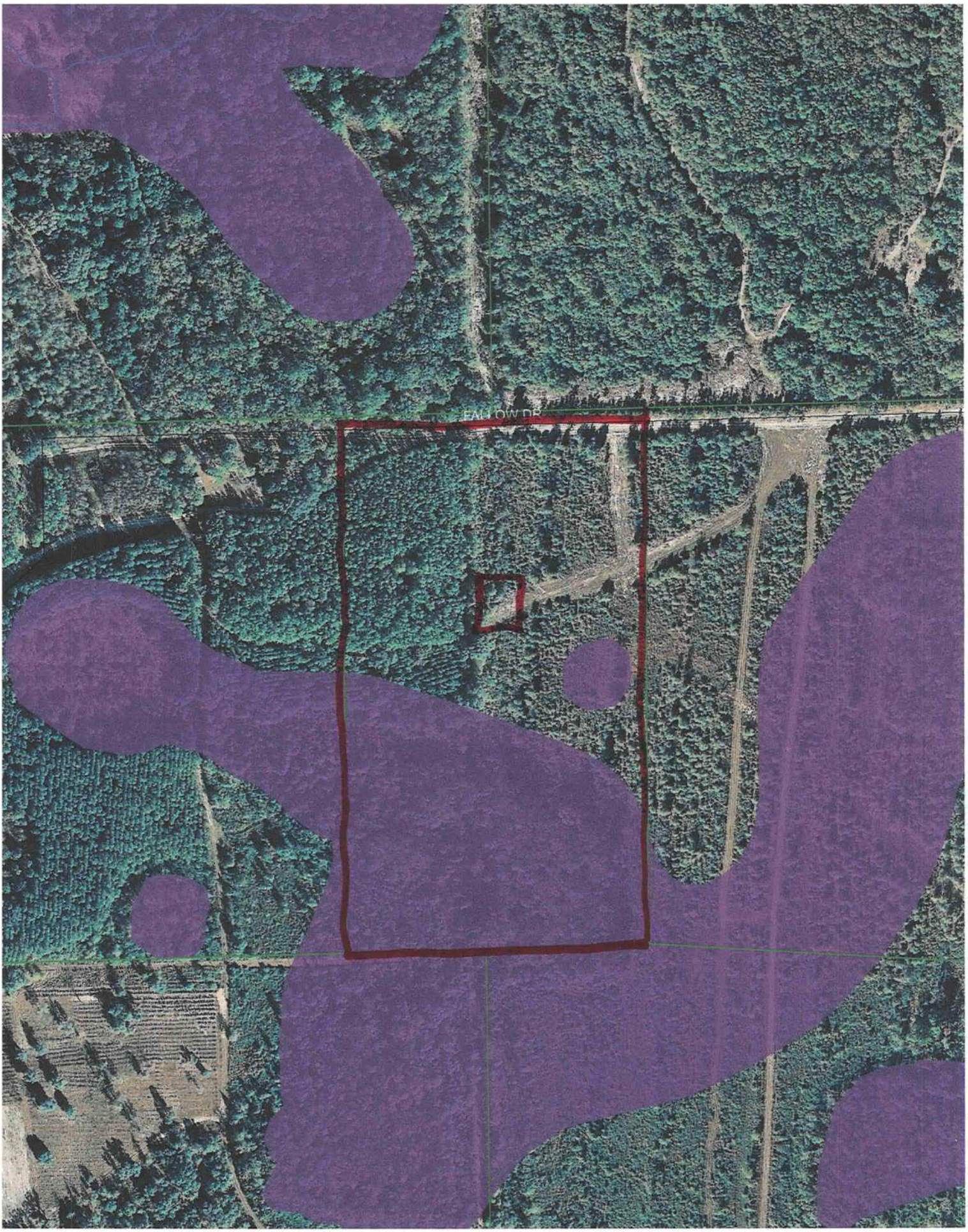
Notary Signature Amy P. Bedenbaugh Notary Stamp or Seal:

AMY P BEDENBAUGH
MY COMMISSION # DD864554
EXPIRES February 25, 2013
(407) 398-0153 FloridaNotaryService.com

~~AND~~

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Robert P Kebler
Signature of Natural Person Signing (in line #10 above.)



1106-37

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION
Alternate Residential Points System Method

FORM 600A-08 — NORTH 1 2 3

PROJECT NAME:	1106068	BUILDER: TOP FLIGHT	
ADDRESS:	LOT #4 PEER RUN	PERMITTING OFFICE: Columbia County	CLIMATE ZONE: 1 ☐ 2 ☐ 3 ☐
	COLUMBIA CO FL		
OWNER:	SHEERT KEBLER	PERMIT NO.: 29591	JURISDICTION NO.: 22 1000

	Please Type	CK
New construction or addition	1. NEW	
Single-family detached or Multiple-family attached	2. SINGLE	
If Multiple-family–No. of units covered by this submission	3.	
Is this a worst case? (yes/no)	4. YES	
Conditioned floor area (sq. ft.)	5. 3389 sq. ft.	
Predominant eave overhang (ft.)	6. 1.5 ft.	
Glass type[1] and area: (Label required by 13-104.4.5 if not default)	Description / Area	
a. U-factor: (or Single- or Double-Pane DEFAULT)	7a. DOUBLE 324 sq. ft.	
b. SHGC: (or Clear or Tint DEFAULT)	7b. CLEAR sq. ft.	
Floor type and insulation:		
a. Slab-on-grade (R-value + perimeter)	8a. R = , l. ft.	
b. Wood, raised (R-value + sq. ft.)	8b. R = 0 , 2475 sq. ft.	
c. Concrete, raised (R-value)	8c. R = , sq. ft.	
Net wall type, area and insulation:		
a. Exterior: 1. Concrete block (Insulation R-value)	9a-1 R = , sq. ft.	
2. Wood frame (Insulation R-value)	9a-2 R = 13 , 2203 sq. ft.	
3. Steel frame (Insulation R-value)	9a-3 R = , sq. ft.	
4. Log (Insulation R-value)	9a-4 R = , sq. ft.	
5. Other:		
b. Adjacent: 1. Concrete block (Insulation R-value)	9b-1 R = , sq. ft.	
2. Wood frame (Insulation R-value)	9b-2 R = , sq. ft.	
3. Steel frame (Insulation R-value)	9b-3 R = , sq. ft.	
4. Log (Insulation R-value)	9b-4 R = , sq. ft.	
Ceiling type, area and insulation:	10a. R=30 3355 sq. ft.	
a. Under attic (Insulation R-value)	10b. sq. ft.	
b. Single assembly (Insulation R-value)	10c.	
c. Radiant barrier, IRCC or white roof installed?	11a. R = 6 , ATTIC (cond./uncond.)	
Air distribution system:	11b. R = , INT. (cond./uncond.)	
a. Ducts (Insulation + Location)	12a. Type: CENTRAL	
b. Air Handler (Location)	12b. SEER/EER/COP: 13	
Cooling system: (Types: central-split, central-single pkg., room unit, PTAC, gas, none)	12c. Capacity: 50,000	
Heating system: (Types: heat pump, elec. strip, nat. gas, LP gas, gas h.p., room or PTAC, none)	13a. Type: HEAT PUMP	
	13b. HSPF/COP/AFUE: 7.9	
	13c. Capacity: 50,000	
Hot water system: (Types: elec., natural gas, solar, LP gas, none)	14a. Type: GAS TANKLESS	
	14b. EF: .87	
Hot water credits	15a.	
a. Heat Recovery (HR)	15b.	
b. Dedicated Heat Pump (DHP)	15c.	
c. Solar	16.	
HVAC Credits (Use: CF-ceiling fan, CV-cross vent, PT-programmable thermostat, HF-whole house fan, MZ-Multizone)		
COMPLIANCE STATUS: (PASS if As-Built Pts. are less than Base Pts.)	17. PASS	
a. Total As-Built points b. Total Base points	17a. 37336 17b. 33808	

COLUMBIA COUNTY BUILDING DEPARTMENT — Received for FILE COPY — Code Compliance — PLANS EXAMINER

I hereby certify that the plans and specifications covered by the calculation are in compliance with the Florida Energy Code.

PREPARED BY: EVAN BEAMSLEY DATE: 6/15/11

I hereby certify that this building is in compliance with the Florida Energy Code:

OWNER AGENT: _____ DATE: _____

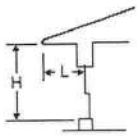
Review of plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed, this building will be inspected for compliance in accordance with Section 553.908, F.S.

BUILDING OFFICIAL: _____

DATE: _____

[1] For glass types and areas, see summer and winter glass output on Pages 2 and 4.

GLASS



OVERHANG RATIO = OH LENGTH / OH HEIGHT

ORIENTATION	OVERHANG LENGTH OH (FEET)	GLASS AREA (SQ. FT)	SINGLE-PANE SUMMER POINT MULTIPLIER		DUBLE-PANE SUMMER POINT MULTIPLER		SUMMER OH FACTOR (from 6A-1)	AS-BUILT GLASS SUMMER PTS
			CLEAR	TINT (2)	CLEAR	TINT (2)		
N	1.5	83.2			19.2		0.971	1551
E	0	30			42.06		1	1262
S	9.5	96.7			35.87		0.493	1710
W	0	24			38.52		1	924
								0
E	0	15			42.06		1	631
S	0	60			35.87		1	2152
W	0	15			38.52		1	578
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0

GLASS	COND FLOOR AREA	WEIGHTED GLASS MULTIPLIER	BASE GLASS SUBTOTAL
0.18	3389	18.59	11340

AS-BUILT GLASS SUBTOTAL
8808

	COMPONENT DESCRIPTION	AREA	BASE SUMMER POINT MULT.	BASE SUM POINTS	COMPONENT DESCRIPTION	AREA	SUMMER POINT MULT. (6A-2 - 6A-6)	AS BUILT SUMMER POINTS
WALL	EXTERIOR	2203	1.5	3305	EXT FRAME R13	2203	1.5	3305
	ADJACENT	0	0.6	0	ADJ FRAME R13	0	0.6	0
						0		0
						0		0
DOORS	EXTERIOR	73.2	6.1	447	EXT INSULATED	73.2	4.1	300
	ADJACENT	0	2.4	0	ADJ INSULATED	0	1.6	0
						0		0
CEILING	UNDER ATTIC OR SINGLE ASSEMBLY	3389	1.73	5863	ATTIC R30	3355	1.73	5804
					RBS/IECC/white roof (3)	0	1.03	0
	BASE CEILING AREA EQUALS FLOOR AREA DIRECTLY UNDER CEILING. AS-BUILT CEILING AREA EQUALS ACTUAL CEILING SQUARE FOOTAGE							
FLOOR	SLAB (PERIMETER)	0	-41.2	0	SLAB	0	-41.2	0
	RAISED (AREA)	2475	-0.98	-2426	STEMWALL R-0	2475	-4.7	-11632.5
	FOR SLAB-ON-GRADE USE PERIMITER LENGTH AROUND CONDITIONED FLOOR, FOR RAISED FLOORS USE AREA OVER UNCONDITIONED SPACE							
INFILTRATION & INTERNAL GAINS		3389	10.21	34602		3389	10.21	34602
	USE TOTAL FLOOR AREA OF CONDITIONED SPACE							

TOTAL COMPONENT BASE SUMMER POINTS	53130	TOTAL COMPONENT AS-BUILT SUMMER POINTS	41186

	BASE COOLING SYSTEM MULTIPLIER	TOTAL BASE SUMMER POINTS	BASE COOLING POINTS	TOTAL AS-BUILT SUM. PTS.	AS-BUILT DM (6A-8)	AS-BUILT DSM (6A-20)	AS-BUILT AHU (6A-7)	AS-BUILT CMS (6A-9)	AS-BUILT CCM (6A-19)	AS-BUILT COOLING POINTS
COOLING SYSTEM	0.325	53130	**17267**	41186	1.09	1.15	0.91	0.26	1	**12215**

	NUMBER OF BEDROOMS	BASE HOT WATER MULTIPLIER	BASE HOT WATER POINTS	AS-BUILT HOT WATER SYSTEM DESCRIPTION	NUMBER OF BED-ROOMS	AS-BUILT HWM (6A-23)	AS-BUILT HWCM (6A-23)	AS-BUILT HOT WATER POINTS
HOT WATER SYSTEM	4	2635	**10540**	GAS TANK-LESS	4	933	1	**3732**

(1) H = HORIZONTAL GLASS (SKYLIGHTS)

(2) FOR GLASS WITH KNOW SHGC, SEE SEC. 2.1.1 OF APPENDIX G-C of the *FBC, Residential.* TINT MULTIPLIERS MAY BE USED FOR GLASS WITH SOLAR SCREENS, FILM, OR TINT

(3) MUST MEET CRITERIA OF APPENDIX G-C4.2.1.5 of the *FBC, Residential.*

SUMMER OVERHANG FACTORS (SOF) FOR SINGLE-AND DOUBLE-PANE GLASS

SELECT BY OR

OH Ratio	.00-.11	.12-.17	.18-.26	.27-.35	.36-.46	.47-.57	.58-.70	.71-.83	.84-1.18	1.19-1.72	1.73-2.73	2.74 & up
North	1.00	0.993	0.971	0.930	0.888	0.842	0.803	0.766	0.736	0.681	0.634	0.593
Northeast	1.00	0.996	0.967	0.907	0.845	0.775	0.717	0.662	0.619	0.545	0.487	0.441
East	1.00	0.994	0.963	0.898	0.827	0.745	0.675	0.609	0.558	0.470	0.405	0.357
Southeast	1.00	0.998	0.952	0.864	0.777	0.689	0.623	0.566	0.525	0.459	0.413	0.379
South	1.00	0.989	0.931	0.835	0.751	0.675	0.620	0.575	0.543	0.493	0.458	0.432
Southwest	1.00	0.998	0.953	0.866	0.779	0.691	0.623	0.565	0.522	0.453	0.404	0.368
West	1.00	0.994	0.963	0.899	0.828	0.748	0.681	0.617	0.569	0.485	0.422	0.375
Northwest	1.00	0.996	0.968	0.913	0.858	0.797	0.748	0.702	0.667	0.605	0.556	0.516
OH Length	0.0'	1.0'	1.5'	2.0'	3.0'	3.5'	4.5'	5.5'	6.5'	9.5'	14.0'	20.0'

2 WALL SUMMER POINT MULTIPLIERS (SPM)

FRAME					CONCRETE BLOCK (NORMAL WT)				FACE BRICK				LOG		
	WOOD		STEEL			INTERIOR INSULATION		EXT. INSUL.	*R*-VALUE	WOOD FR	*R*-VALUE	BLOCK		6 INCH	8 INCH
VALUE	EXT	ADJ	EXT	ADJ	*R*-VALUE	EXT	ADJ	EXT	0-6.9	2.4	0-2.9	1.0	*R*-VALUE	EXT	EXT
0-6.9	5.5	2.2	7.6	2.8	0-2.9	2.2	1.1	2.2	7-10.9	.6	3-6.9	.6	0-2.9	1.5	1.0
7-10.9	2.1	.8	3.5	1.3	3-4.9	1.3	.8	.8	11-18.9	.4	7-9.9	.4	3-6.9	1.0	.7
11-12.9	1.7	.7	2.7	1.0	5-6.9	1.0	.7	.5	19-25.9	.2	10 & UP	.2	7 & UP	.8	.6
13-18.9	1.5	.6	2.5	0.9	7-10.9	.7	.5	.3	26 & UP	.1					
19-25.9	.9	.4	2.2	0.8	11-18.9	.4	.4	0							
26 & UP	.6	.2	1.2	0.4	19-25.9	.2	.2								
					26 & UP	.1	.1								

3 DOOR SUMMER POINT MULTIPLIERS (SPM)

DOOR TYPE	EXTERIOR	ADJACENT
OOD	6.1	2.4
SULATED	4.1	1.6

6A-4 CEILING SUMMER POINT MULTIPLIERS (SPM)

UNDER ATTIC		SINGLE ASSEMBLY		CONCRETE DECK ROOF		
					CEILING TYPE	
R-VALUE	SPM	*R*-VALUE	SPM	*R*-VALUE	EXPOSED	DROPPED
19-21.9	2.34	10-10.9	8.49	10-13.9	9.13	8.47
22-25.9	2.11	11-12.9	7.97	14-20.9	6.80	6.45
26-29.9	1.89	13-18.9	7.14	21 & UP	4.92	4.63
30-37.9	1.73	19-25.9	5.64			
38 & UP	1.52	26-29.9	4.75			
RBS Credit	0.700	30 & UP	4.40			
IRCC Credit	0.849					
White Roof Credit	0.550					

5 FLOOR SUMMER POINT MULTIPLIERS (SPM)

SLAB-ON-GRADE EDGE INSULATION		RAISED CONCRETE		RAISED WOOD			
					POST OR PIER CONSTRUCTION	STEM WALL w/UNDER FLOOR INSULATION	ADJACENT
R-VALUE	SPM	*R*-VALUE	SPM	*R*-VALUE	SPM	SPM	SPM
0-2.9	-41.2	0-2.9	-.8	0-6.9	2.80	-4.7	2.2
3-4.9	-37.2	3-4.9	-1.3	7-10.9	1.34	-2.3	.8
5-6.9	-36.2	5-6.9	-1.3	11-18.9	1.06	-1.9	.7
7 & UP	-35.7	7 & UP	-1.3	19 & UP	.77	-1.5	.4

6 INFILTRATION & INTERNAL GAINS (SPM)

r Infiltration	3.44
ternal Gains	+6.77
filtration/Internal Gains (Combined)	10.21

7 AIR HANDLER MULTIPLIERS (SPM)

ocated in garage	1.00
ocated in conditioned area	0.91
ocated on exterior of building	1.02
ocated in attic	1.11

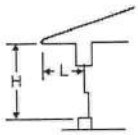
6A-8 DUCT MULTIPLIERS (DM)

SUPPLY DUCTS IN:	DUCT *R*-VALUE	RETURN DUCTS IN:				
		Unconditioned space	Attic/ RBS	Attic/ IRCC	Attic/ Cool roof	Conditioned space
Unconditioned Space	4.2	1.118	1.111	1.112	1.089	1.107
	6.0	1.090	1.084	1.085	1.066	1.081
	8.0	1.071	1.066	1.067	1.051	1.064
Attic/Radiant Barrier (RBS)	4.2	1.072	1.066	—	—	1.061
	6.0	1.056	1.051	—	—	1.047
	8.0	1.045	1.041	—	—	1.037
Attic/Interior Radiation Control Coatings (IRCC)	4.2	1.099	—	1.092	—	1.084
	6.0	1.076	—	1.071	—	1.065
	8.0	1.061	—	1.057	—	1.052
Attic/Cool Roof	4.2	1.068	—	—	1.096	1.057
	6.0	1.051	—	—	1.071	1.043
	8.0	1.040	—	—	1.055	1.034
Conditioned Space	4.2	1.006	1.005	1.007	1.008	1.000
	6.0	1.005	1.004	1.005	1.006	1.000
	8.0	1.004	1.003	1.004	1.005	1.000

9 COOLING SYSTEM MULTIPLIERS (CSM)

YSTEM TYPE		COOLING SYSTEM MULTIPLIERS (CSM)										
entral Units (SEER)	Rating		7.5-7.9	8.0-8.4	8.5-8.8	8.9-9.4	9.5-9.9	10.0-10.4	10.5-10.9	11.0-11.4	11.5-11.9	12.0-12.4
	CSM		.45	.43	.40	.38	.36	.34	.32	.31	.30	.28
TAC & Room Units (EER)	Rating	12.5-12.9	13.0-13.4	13.5-13.9	14.0-14.4	14.5-14.9	15.0-15.4	15.5-15.9	16.0-16.4	16.5-16.9	17.0-17.4	17.5 & UP
	CSM	.27	.26	.25	.24	.24	.23	.22	.21	.21	.20	.19

GLASS



OVERHANG RATIO = $\frac{\text{OH LENGTH}}{\text{OH HEIGHT}}$

ORIENTATION	OVERHANG LENGTH OH (FEET)	GLASS AREA (SQ. FT)	SINGLE-PANE WINTER POINT MULTIPLIER		DUBLE-PANE WINTER POINT MULTIPLER		WINTER OH FACTOR (from 6A-10)	AS-BUILT GLASS WINTER PTS
			CLEAR	TINT (2)	CLEAR	TINT (2)		
N	1.5	83.2			24.58		1.001	2047
E	0	30			18.79		1	564
S	9.5	96.7			13.3		3.042	3912
W	0	24			20.73		1	498
								0
E	0	15			18.79		1	282
S	0	60			13.3		1	798
W	0	15			20.73		1	311
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0
		0						0

GLASS	COND FLOOR AREA	WEIGHTED GLASS MULTIPLIER	BASE GLASS SUBTOTAL
0.18	3389	20.17	12304

AS-BUILT GLASS SUBTOTAL
8411

	COMPONENT DESCRIPTION	AREA	BASE SUMMER POINT MULT.	BASE WINTER POINTS	COMPONENT DESCRIPTION	AREA	WINTER POINT MULT. (6A-11 - 6A-15)	AS BUILT WINTER POINTS
WALL	EXTERIOR	2203	3.4	7490	EXT FRAME R13	2203	3.4	7490
	ADJACENT	0	3.3	0	ADJ FRAME R13	0	3.3	0
						0		0
						0		0
DOORS	EXTERIOR	73.2	12.3	900	EXT INSULATED	73.2	8.4	615
	ADJACENT	0	11.5	0	ADJ INSULATED	0	8	0
						0		0
CEILING	UNDER ATTIC OR SINGLE ASSEMBLY	3389	2.05	6947	ATTIC R30	3355	2.05	6878
					RBS/IECC/white roof (3)	0	1.2	0
	BASE CEILING AREA EQUALS FLOOR AREA DIRECTLY UNDER CEILING. AS-BUILT CEILING AREA EQUALS ACTUAL CEILING SQUARE FOOTAGE							
FLOOR	SLAB (PERIMETER)	0	18.8	0	SLAB	0	18.8	0
	RAISED (AREA)	2475	1.38	3416	STEMWALL R-0	2475	5.77	14280.75
	FOR SLAB-ON-GRADE USE PERIMITER LENGTH AROUND CONDITIONED FLOOR, FOR RAISED FLOORS USE AREA OVER UNCONDITIONED SPACE							
	INFILTRATION & INTERNAL GAINS	3389	-0.58	-1966		3389	-0.58	-1966
	USE TOTAL FLOOR AREA OF CONDITIONED SPACE							

TOTAL COMPONENT BASE WINTER POINTS	29092	TOTAL COMPONENT AS-BUILT WINTER POINTS	35709

HEATING SYSTEM	BASE HEATING SYSTEM MULTIPLIER	TOTAL BASE WINTER POINTS	BASE HEATING POINTS	TOTAL AS-BUILT WIN. PTS.	AS-BUILT DM (6A-17)	AS-BUILT DSM (6A-20)	AS-BUILT AHU (6A-16)	AS-BUILT CMS (6A-18)	AS-BUILT CCM (6A-21)	AS-BUILT HEATING POINTS
	0.554	29092	**16117**	35709	1.069	1.17	0.93	0.43	1	**17861**

TOTAL	BASE COOLING POINTS (From P2)	BASE HEATING POINTS	BASE H/W PTS. (From P2)	0.85	TOTAL BASE PTS. (Enter on P1)	AS-BUILT COOLING POINTS (From P2)	AS-BUILT HEATING POINTS	AS-BUILT H/W PTS. (From P2)	TOTAL AS-BUILT PTS. (Enter on P1)
	17267	16117	10540	43924	**37336**	12215	17861	3732	**33808**

(1) H = HORIZONTAL GLASS (SKYLIGHTS)

(2) FOR GLASS WITH KNOW SHGC, SEE SEC. 2.1.1 OF APPENDIX G-C of the *FBC, Residential.* TINT MULTIPLIERS MAY BE USED FOR GLASS WITH SOLAR SCREENS, FILM, OR TINT

(3) MUST MEET CRITERIA OF APPENDIX G-C4.2.1.5 of the *FBC, Residential.*

A-10 WINTER OVERHANG FACTORS (WOF)

SELECT BY OR

OH Ratio	.00-.11	.12-.17	.18-.26	.27-.35	.36-.46	.47-.57	.58-.70	.71-.83	.84-1.18	1.19-1.72	1.73-2.73	2.74 & up
North	1.00	1.000	1.001	1.003	1.005	1.009	1.011	1.014	1.016	1.021	1.024	1.027
Northeast	1.00	0.998	1.001	1.008	1.015	1.023	1.029	1.035	1.040	1.049	1.056	1.061
East	1.00	1.007	1.018	1.040	1.069	1.109	1.150	1.198	1.242	1.338	1.429	1.507
Southeast	1.00	1.014	1.043	1.111	1.202	1.332	1.472	1.635	1.787	2.113	2.412	2.650
South	1.00	0.994	1.032	1.142	1.308	1.563	1.845	2.175	2.471	3.042	3.450	3.661
Southwest	1.00	1.006	1.025	1.070	1.131	1.217	1.308	1.413	1.508	1.708	1.888	2.031
West	1.00	1.002	1.010	1.027	1.049	1.077	1.102	1.128	1.149	1.187	1.217	1.238
Northwest	1.00	0.999	1.000	1.004	1.008	1.012	1.016	1.019	1.022	1.028	1.032	1.036
OH Length	0.0'	1.0'	1.5'	2.0'	3.0'	3.5'	4.5'	5.5'	6.5'	9.5'	14.0'	20.0'

A-11 WALL WINTER POINT MULTIPLIERS (WPM)

FRAME					CONCRETE BLOCK (NORMAL WT)				FACE BRICK				LOG		
	WOOD		STEEL			INTERIOR INSULATION		EXT. INSUL.	R-VALUE	WOOD FR	R-VALUE	BLOCK		6 INCH	8 INCH
R-VALUE	EXT	ADJ	EXT	ADJ	R-VALUE	EXT	ADJ	EXT	0-6.9	12.6	0-2.9	7.9	R-VALUE	EXT	EXT
0-6.9	11.1	10.4	15.1	13.1	0-2.9	11.2	6.8	11.2	7-10.9	4.2	3-6.9	5.7	0-2.9	4.5	3.0
7-10.9	4.4	4.4	7.3	6.6	3-4.9	7.3	5.1	5.6	11-18.9	3.5	7-9.9	3.8	3-6.9	2.8	2.2
11-12.9	3.7	3.6	5.7	5.2	5-6.9	5.7	4.2	4.3	19-25.9	2.2	10 & UP	3.0	7 & UP	2.1	1.7
13-18.9	3.4	3.3	5.2	4.9	7-10.9	4.6	3.5	3.3	26 & UP	1.4					
19-25.9	2.2	2.2	4.6	4.4	11-18.9	3.0	2.6	2.2							
26 & Up	1.5	1.5	2.7	2.6	19-25.9	1.9	1.7								
					26 & UP	1.3	1.2								

A-12 DOOR WINTER POINT MULTIPLIERS (WPM)

DOOR TYPE	EXTERIOR	ADJACENT
WOOD	12.3	11.5
INSULATED	8.4	8.0

6A-13 CEILING WINTER POINT MULTIPLIERS (WPM)

UNDER ATTIC		SINGLE ASSEMBLY	
R-VALUE	WPM	R-VALUE	WPM
19-21.9	2.70	10-10.9	2.87
22-25.9	2.45	11-12.9	2.70
26-29.9	2.22	13-18.9	2.40
30-37.9	2.05	19-25.9	1.86
38 & UP	1.81	26-29.9	1.54
RBS Credit	0.850	30 & UP	1.43
IRCC Credit	0.912		
White Roof Credit	1.044		

CONCRETE DECK ROOF		
	CEILING TYPE	
R-VALUE	EXPOSED	DROPPED
10-13.9	3.16	2.91
14-20.9	2.31	2.14
21 & UP	1.47	1.47

A-14 FLOOR WINTER POINT MULTIPLIERS (WPM)

SLAB-ON-GRADE EDGE INSULATION		RAISED CONCRETE		RAISED WOOD			
				POST OR PIER CONSTRUCTION	STEM WALL w/UNDER FLOOR INSULATION	ADJACENT	
R-VALUE	WPM	R-VALUE	WPM	R-VALUE	WPM	WPM	WPM
0-2.9	18.8	0-2.9	9.9	0-6.9	5.77	3.5	10.4
3-4.9	9.3	3-4.9	5.1	7-10.9	2.20	1.6	4.4
5-6.9	7.6	5-6.9	3.6	11-18.9	1.55	1.2	3.6
7 & UP	7.0	7 & UP	2.9	19 & UP	0.88	.8	2.2

6A-15 INFILTRATION & INTERNAL GAINS (WPM)

Air Infiltration	2.13
Internal Gains	-2.72
Infiltration/Internal Gains (Combined)	-0.58

6A-16 AIR HANDLER MULTIPLIERS (WPM)

Located in garage	1.00
Located in conditioned area	0.93
Located on exterior of building	1.07
Located in attic	1.10

6A-17 DUCT MULTIPLIERS (DM)

SUPPLY DUCTS IN:	DUCT R-VALUE	RETURN DUCTS IN: Unconditioned space	Attic/ RBS	Attic/ IRCC	Attic/ Cool roof	Conditioned space
Unconditioned Space	4.2	1.093	1.086	1.088	1.089	1.081
	6.0	1.069	1.064	1.065	1.066	1.060
	8.0	1.053	1.049	1.051	1.051	1.046
Attic/Radiant Barrier (RBS)	4.2	1.067	1.059	—	—	1.052
	6.0	1.051	1.045	—	—	1.040
	8.0	1.040	1.036	—	—	1.032
Attic/Interior Radiation Control Coatings (IRCC)	4.2	1.096	—	1.088	—	1.077
	6.0	1.072	—	1.066	—	1.057
	8.0	1.056	—	1.052	—	1.045
Attic/Cool Roof	4.2	1.104	—	—	1.096	1.083
	6.0	1.076	—	—	1.071	1.061
	8.0	1.059	—	—	1.055	1.048
Conditioned Space	4.2	1.008	1.007	1.010	1.008	1.000
	6.0	1.006	1.005	1.007	1.006	1.000
	8.0	1.005	1.004	1.006	1.005	1.000

6A-18 HEATING SYSTEM MULTIPLIERS (HSM) All Climate Zones

SYSTEM TYPE		HEATING SYSTEM MULTIPLIERS (HSM)							
Central Heat Pump Units	HSPF	7.4-7.6	7.7-7.8	7.9-8.3	8.4-8.8	8.9-9.3	9.4-9.8	9.9-10.3	10.4-10.8
	HSM	.46	.44	.43	.41	.38	.36	.34	.33
PTHP	COP	2.50-1.69	2.70-2.89	2.90-3.09	3.10-3.29	3.30-3.49	3.50-3.69	3.70-3.89	3.90-4.19
	HSM	.40	.37	.34	.32	.30	.29	.27	.26
Gas Heating	AFUE	76-.77	78	79-.82	83-.85	86-.89	90-.92	93-.95	96-.98
	HSM	.46	.44	.43	.41	.38	.36	.34	.33
Electric Strip	1.0								

19 COOLING CREDIT MULTIPLIERS

SYSTEM TYPE	Cooling credit multipliers (CCM)
ling Fans	.95*
ss Ventilation	.95*
ole House Fan	.95*
ltizone	.95
grammable Thermostat	.95

edit may be taken for only one system type concurrently.

6A-20 AIR DISTRIBUTION SYSTEM CREDIT MULTIPLIERS

TYPE CREDIT	Prescriptive requirements	Multiplier
Air-tight Duct Credit[1]	Appx G-C5.2.2.1.1	1.00
Factory-sealed AHU Credit[2]	Appx G-C5.2.2.1.2	0.95

[1]Duct Sealing Multiplier (DSM) shall be 1.15 (summer) or 1.17 (winter) unless Air-tight Duct Credit is demonstrated by test report.
[2]Multiply Factory-sealed AHU credit by summer (Table 6A-7) or winter (Table 6A-16) AHU multiplier. Insert total in the "As-Built AHU" box on page 2 or 4.

21 HEATING CREDIT MULTIPLIERS (HCM)

STEM TYPE		HEATING CREDIT MULTIPLIERS (HCM)
grammable Thermostat	HCM	.95
ltizone	HCM	.95

22 HOT WATER MULTIPLIERS (HWM)

STEM TYPE									
ctric Resistance	EF	.80-.81	.82-.83	.84-.85	.86-.87	.88-.90	.91-.93	.94-.96	.97 &Up
	HWM	3020	2946	2876	2809	2746	2655	2571	2491
s Water Heating	EF	.54	.55	.56	.57	.58	.59	.60	.61
	HWM	3020	2946	2876	2809	2746	2655	2571	2491
	EF	.62-.63	.64-.65	.66-.70	.71-.75	.76-.80	.81-.83	.84-.86	.87 & Up
	HWM	2348	2217	2101	1738	1456	1196	1055	933

23 HOT WATER CREDIT MULTIPLIERS (HWCM)

STEM TYPE		HOT WATER CREDIT MULTIPLIERS (HWCM)				
at Recovery Unit	With	Air Conditioner		Heat Pump		
	HWCM	.84		.78		
ld-on Dedicated Heat Pump (without nk)	EF	2.0-2.49	2.5-2.99	3.0-3.49	3.5 & Up	
	HWCM	.44	.35	.29	.25	
ld-on Solar Water Heater (without tank)	EF	1.0-1.9	2.0-2.9	3.0-3.9	4.0-4.9	5.0 & Up
	HWCM	.84	.42	.28	.21	.17

NOTE: An HWM must be used in conjunction with all HWCM. See Table 6A-22. EF Means Energy Factor.

24 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

OMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
terior Windows & Doors	N1106.AB.1.1	Max: 3 cfm/sq. ft. window area; .5cfm/sq. ft. door area.	
terior & Adjacent Walls	N1106.AB.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; CFM utility penetrations; between wall panels & top/bottom plates; between walls & floor. EXCEPTION: Frame walls where a continous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
oors	N1106.AB.1.2.2	Penetrations/openings > 1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
ellings	N1106.AB.1.2.3	Seal: Between walls & ceilings: penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
ecessed Lighting Fixtures	N1106.AB.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with <2.0 cfm from conditioned space, tested.	
ultiple Story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
dditional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

25 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

OMPONENTS	SECTION	REQUIREMENTS	CHECK
ater Heaters	N1112.AB.3	Comply with efficiency requirements in Table N1112.AB.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required for vertical pipe risers.	
wimming Pools & Spas	N1112.AB.2.3	Spas & heated pools must have covers (except solar heated). Noncommercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
hower Heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 psig.	
ir Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section N1110. Ducts in unconditioned attics: R-6 minimum insulation.	
VAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
nsulation	N1104.AB.1 N1102.B.1.1	Ceilings–Min. R-19. Common walls–Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ESTIMATED ENERGY PERFORMANCE INDEX* =
The lower the Energy Performance Index, the more efficient the home.

New Home or addition	NEW	
Single family or multiple family	SINGLE	
Number of units, (if multi-family)		
Number of bedrooms	4	
Is this a worst case? (yes or no)	YES	
Conditioned floor area	3389	sq. ft.
Glass type & area		
a. U-Factor:	324	sq. ft.
(Or single or double Default)		sq. ft.
b. SHGC:		sq. ft.
(Or clear or tint Default)		sq. ft.
Floor types, Insulation level		
a. Slab-on-grade, edge insulation	R-	
b. Wood, raised	R- 0	
c. Concrete, raised	R-	
Wall types, Insulation level		
Exterior		
a. Wood frame	R- 13	
b. Metal frame	R-	
c. Concrete block	R-	
d. Log	R-	
e. Other	R-	
Adjacent		
a. Wood frame	R-	
b. Metal frame	R-	
c. Concrete block	R-	
d. Log	R-	
e. Other	R-	
Ceiling types, Insulation level		
a. Under attic	R- 30	
b. Single assembly	R-	
c. Knee walls/skylight walls	R-	
d. Radiant barrier installed	R-	

11.	Ducts, Location & Insulation Level	
	a. Supply ducts: ATTIC	R- 6
	b. Return ducts: ATTIC	R- 6
12.	Cooling systems	Capacity: 50000
	a. Split system	SEER: 13
	b. Single package	SEER:
	c. Ground/water source	COP:
	d. Room unit	EER:
	e. PTAC	EER:
	f. Gas-driven	COP:
13.	Heating Systems	Capacity: 50000
	a. Split system heat pump	HSPF: 7.9
	b. Single package heat pump	HSPF:
	c. Electric resistance	COP:
	d. Gas furnace, natural gas	AFUE:
	e. Gas furnace, LPG	AFUE:
	f. Gas-driven heat pump	Recov. Eff.:
14.	Water heating systems	
	a. Electric resistance	EF: .87
	b. Gas fired, natural gas	EF:
	c. Gas fired, LPG	EF:
	d. Solar System with tank	EF:
	e. Dedicated heat pump with tank	EF:
	f. Heat recovery unit	HeatRec%
	g. Other:	
15.	HVAC credits claimed (Alternate Point System Method only)	
	a. Ceiling fans	
	b. Cross ventilation	
	c. Whole house fan	
	d. Multizone cooling credit	
	e. Multizone heating credit	
	f. Programmable thermostat	

ertify that this home has complied with the Florida Energy Efficiency Code For Building through the above energy saving features which will be talled (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant tures.

ilder Signature: Date:

ldress of New Home: City/FL Zip

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full.
This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE: ***YOU ARE HEREBY NOTIFIED*** as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

(Owners Must Sign All Applications Before Permit Issuance.)

Robert PKA

Owners Signature ****OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

Gregory A. Bedenbaugh

Contractor's Signature (Permitee)

Contractor's License Number CGC 025998
Columbia County
Competency Card Number 417

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 15 **day of** June **20**11.

Personally known ✓ **or Produced Identification** _____

Amy P. Bedenbaugh

State of Florida Notary Signature (For the Contractor)

SEAL:

AMY P BEDENBAUGH
MY COMMISSION # DD864554
EXPIRES February 25, 2013
(407) 398-0153 FloridaNotaryService.com

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1106-37 CONTRACTOR Gregory A. Baldenbaugh PHONE 386-623-1568

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

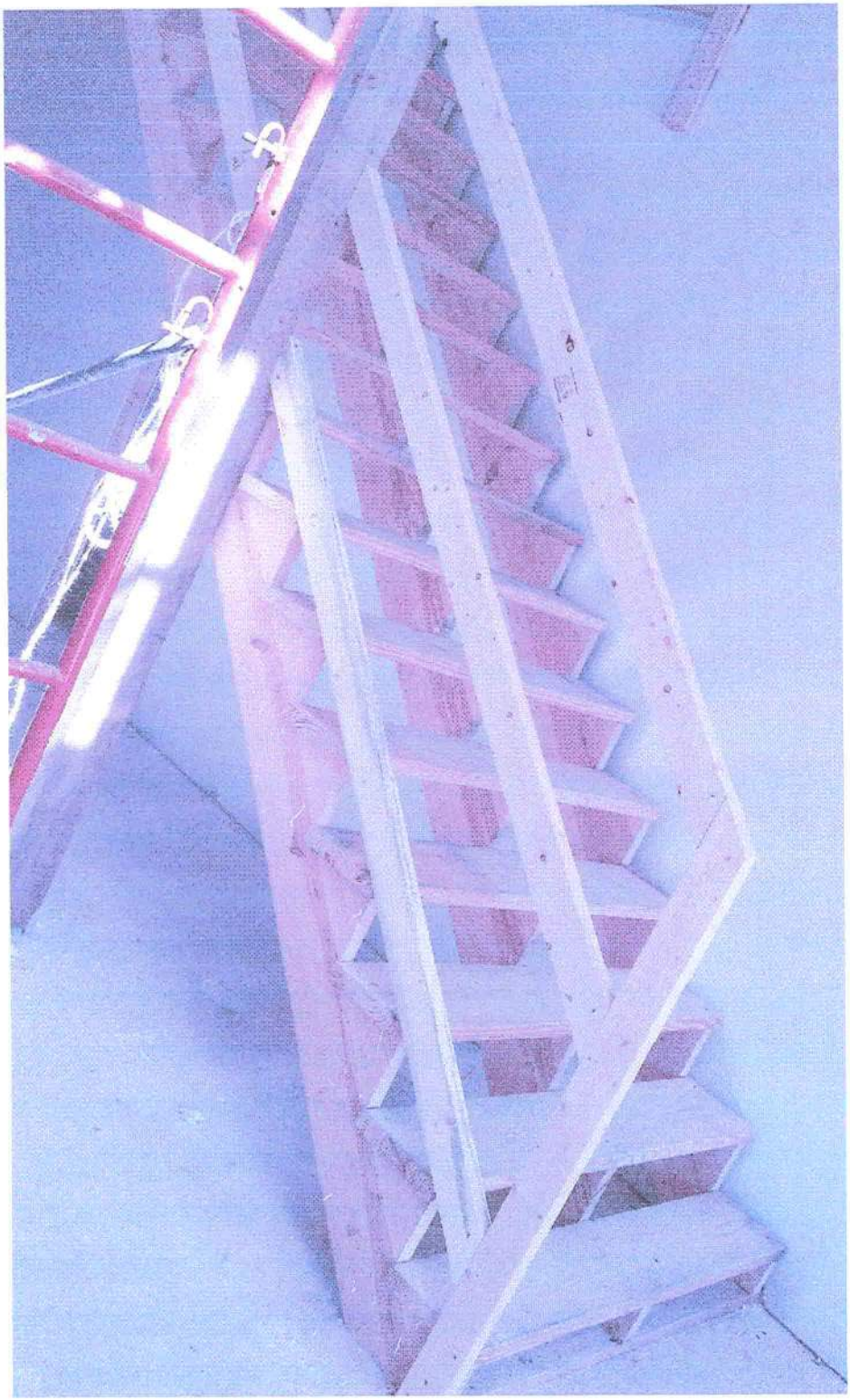
In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

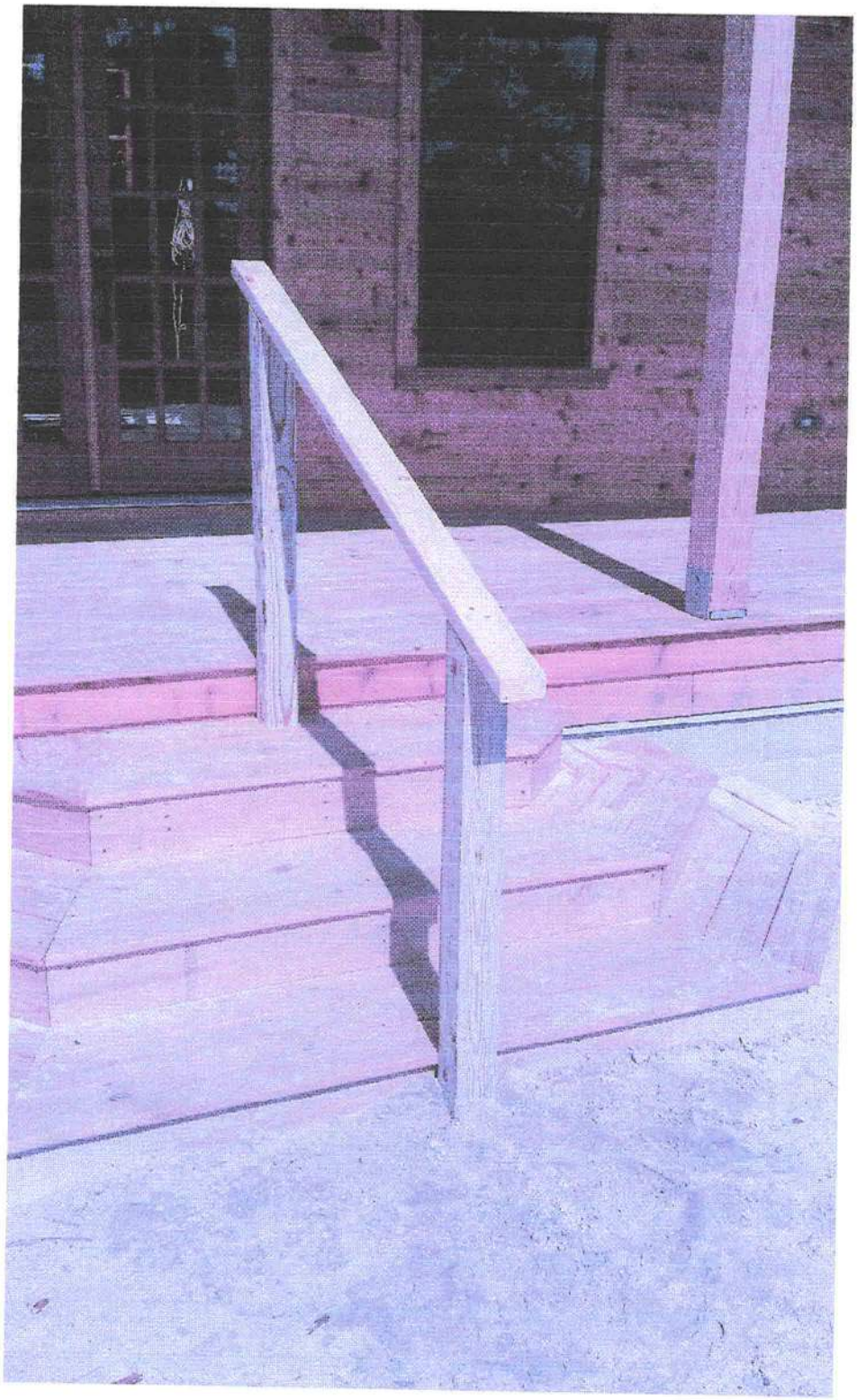
Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL 871	Print Name Dennis Conklin License #: EC13003600 Everton Ruddock	Signature Dennis Conklin Phone #: 755-5255
MECHANICAL/ A/C A 903	Print Name Joe Davis License #: CAC 1816529	Signature Joe Davis Phone #: 623-3487
PLUMBING/ GAS 441	Print Name Joe Davis License #: CFC 1428234	Signature Joe Davis Phone #: 623-3487
ROOFING 417	Print Name Top Flight Const License #: CGC 025998	Signature Gregory A. Baldenbaugh Phone #: 623-1568
SHEET METAL	Print Name License #: N/A	Signature Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name License#: N/A	Signature Phone #:
SOLAR	Print Name License #: N/A	Signature Phone #:

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON	000246	Ed Dennard	Ed Dennard
CONCRETE FINISHER	000063	Darrell Spradley	Darrell Spradley
FRAMING	CGC025998	Gregory A. Baldenbaugh	Gregory A. Baldenbaugh
INSULATION	628	Bobby Jackson	Bobby Jackson
STUCCO	N/A		
DRYWALL	627	Bobby Jackson	Bobby Jackson
PLASTER	N/A		
CABINET INSTALLER	CGC025998	Gregory A. Baldenbaugh	Gregory A. Baldenbaugh
PAINTING	CGC025998	Gregory A. Baldenbaugh	Gregory A. Baldenbaugh
ACOUSTICAL CEILING	N/A		
GLASS	N/A		
CERAMIC TILE	CGC025998	Gregory A. Baldenbaugh	Gregory A. Baldenbaugh
FLOOR COVERING	CGC025998	"	Gregory A. Baldenbaugh
ALUM/VINYL SIDING	CGC025998	"	Gregory A. Baldenbaugh
GARAGE DOOR	N/A		
METAL BLDG ERECTOR	N/A		

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.





CERTIFICATE OF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 05-1S-17-04492-012 **Building permit No.** 000029591

Use Classification SFD/UTILITY **Fire:** 61.10

Permit Holder GREG ADAM BEDENBAUGH **Waste:** 83.75

Owner of Building ROBERT KEBLER/JANICE SHEER **Total:** 144.85

Location: 650 NE FALLOW DRIVE, WHITE SPRINGS, FL 32096

Date: 05/09/2012

Stacy Crews

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

SHEER & KEBLER RESIDENCE

STRUCTURAL PLANS

COLUMBIA COUNTY, FL

Plan Sheet Index:

Sheet No.	Description
1	title/index sheet
2	wall typical/strapping and anchor requirements
3	gable bracing details
4	foundation plan
5	1st floor framing plan
6	truss layout/balcony floor framing

Note: These plans are companion plans to the Sheer and Kebler residential home plans prepared by Haygood Homes Inc.

Marty J. Humphreys
12-16-10

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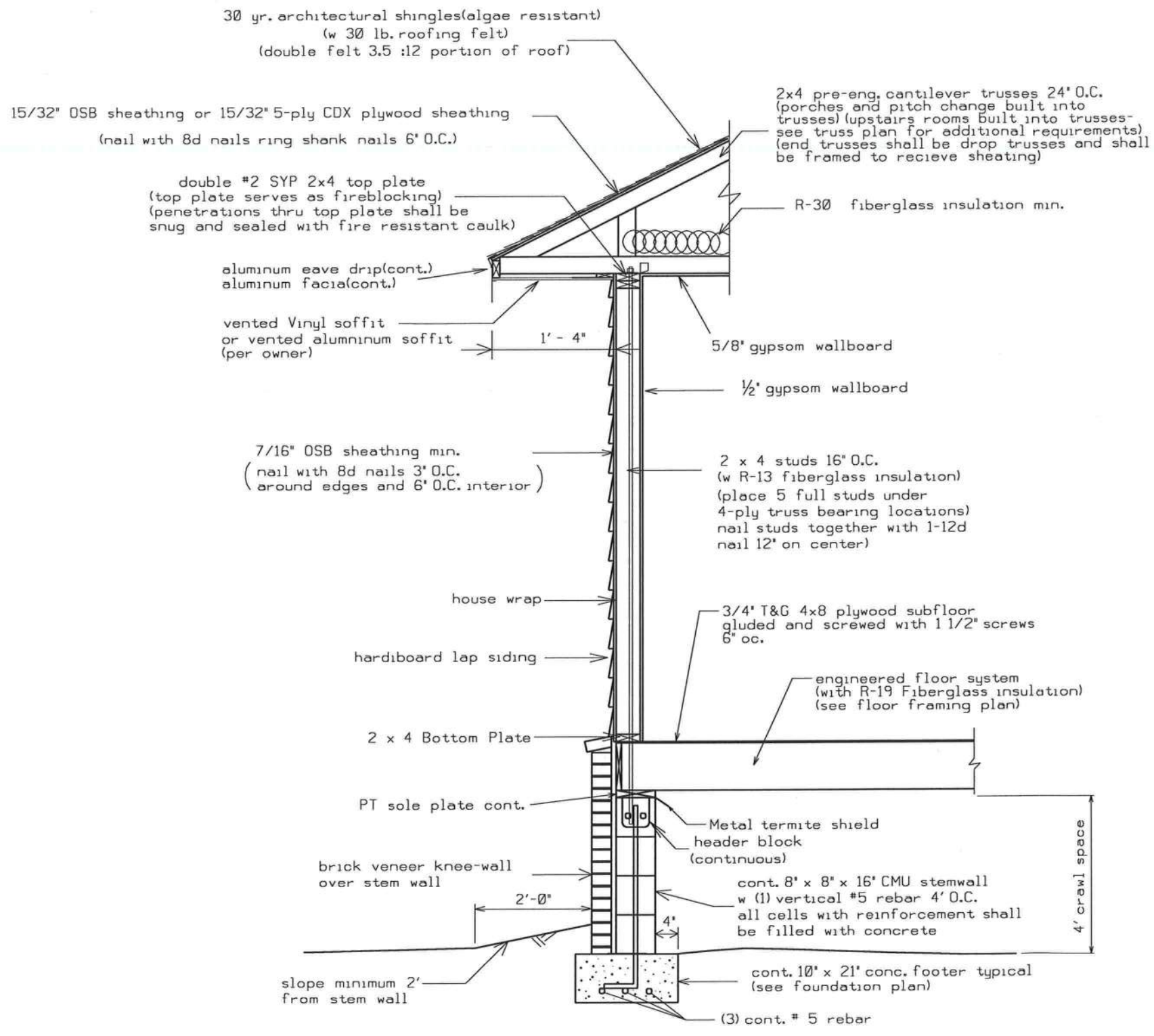
COLUMBIA COUNTY, FLORIDA

SHEET 1 OF 6



HEADER SIZES/MATERIAL SHALL BE AS FOLLOWS:

WINDOW AND DOOR OPENINGS(2 - #2 SYP 2X12's with 1/2" plywood between)

NOTE: REAR HEADER OVER FRENCH DOOR SHALL BE 3 1/2" X 18"
DEEP LVL BEAM(MOD. ELAS. = 2.0E)

PORCH BEAMS (2 - #2 SYP 2X10's with 1/2" plywood between)

DETAIL A - WALL TYPICAL(N.T.S.)

STRAPPING AND ANCHOR REQUIREMENTS

(Designed In accordance with the 2007 FBC and ammendments):

WINDLOAD DATA AND EXPOSURE:

Basic Wind Speed = 100 mph
Importance Factor = 1.0
Exposure Category = B
Residential Occupancy = Group R3
Mean Roof Height = 18'
Height and Exposure Adjustment Coefficient = 1.0
Roof Cross Slope = 7:12 & 3:12
Wall Height = 9'
Analysis Method = ASCE 7-05 Simplified Procedure
Component and Cladding Pressures = Roof(Zone 1=12.5,-19.9, Zone 2=12.5,-34.7, Zone 3=12.5,-51.3), Wall(Zone 4=21.8,-23.6, Zone 5=21.8,-29.1)(units are psf)

TRUSS ANCHORS:

At Truss to Exterior Wall Locations: install one Simpson model H10 anchor for all single ply common trusses. For jack trusses over front porch install one SImpson H2.5A anchor each end. For double plated trusses install 2 Simpson H10-2's each location. For 4-ply trusses install 1 Simpson VGT.

WALL STRAP TIES:

At front and rear walls install 5/8" all-thread from stemwall to top plate 3' on center and each side of door and window openings. Epoxy into stemwall 6" with Simpson SET expoy and install 3"x3" washer with nut at top plate. For left and right walls spacing may be increased to 4' on center and each side of door or window openings. Install 1/2" x4" galvanized lag bolts connecting bottom plate of dormers to roof beams 2' on center. Sheathing for dormers shall be nailed same pattern as walls.

GABLE ENDS:

At gable ends install one Simpson model H5 anchor where lookouts connect to end gable truss.

At left and right end gables install one Simpson LSTA18 - 4' on center connecting gable end truss to wall framing.

BRACING: At each gable end install one 2x4 SPF 8' stud spaced 6' on center horizontal along top of bottom chord of trusses, nail with 2-12d nails at each truss including end truss. In addition, install a 2x4 brace extending from this stud at the gable end truss 45 degrees to truss at roof sheathing, nail with 2-12d nails where it crosses truss members and at ends. Gable end truss shall be built to recieve sheathing with vertical members 2' on center. Vertical members of gable end truss greater than 5' in height shall be stiffened with one 2x4 SPF nailed with 12d nails 8" on center to back of vertical member. (See Detail)

SHEATHING:

Wall sheathing shall be installed with long dimension vertical on exterior walls and full-depth blocking shall be required at horizontal joints in sheathing.

PORCH COLUMNS:

Install Simpson model ABU66 or ABU44 and AC4Max or AC6Max
(ACE4Max or ACE6Max may be used for end columns)

Equivalent capacity anchors may be substituted, installed in accordance with the manufacturers requirements.

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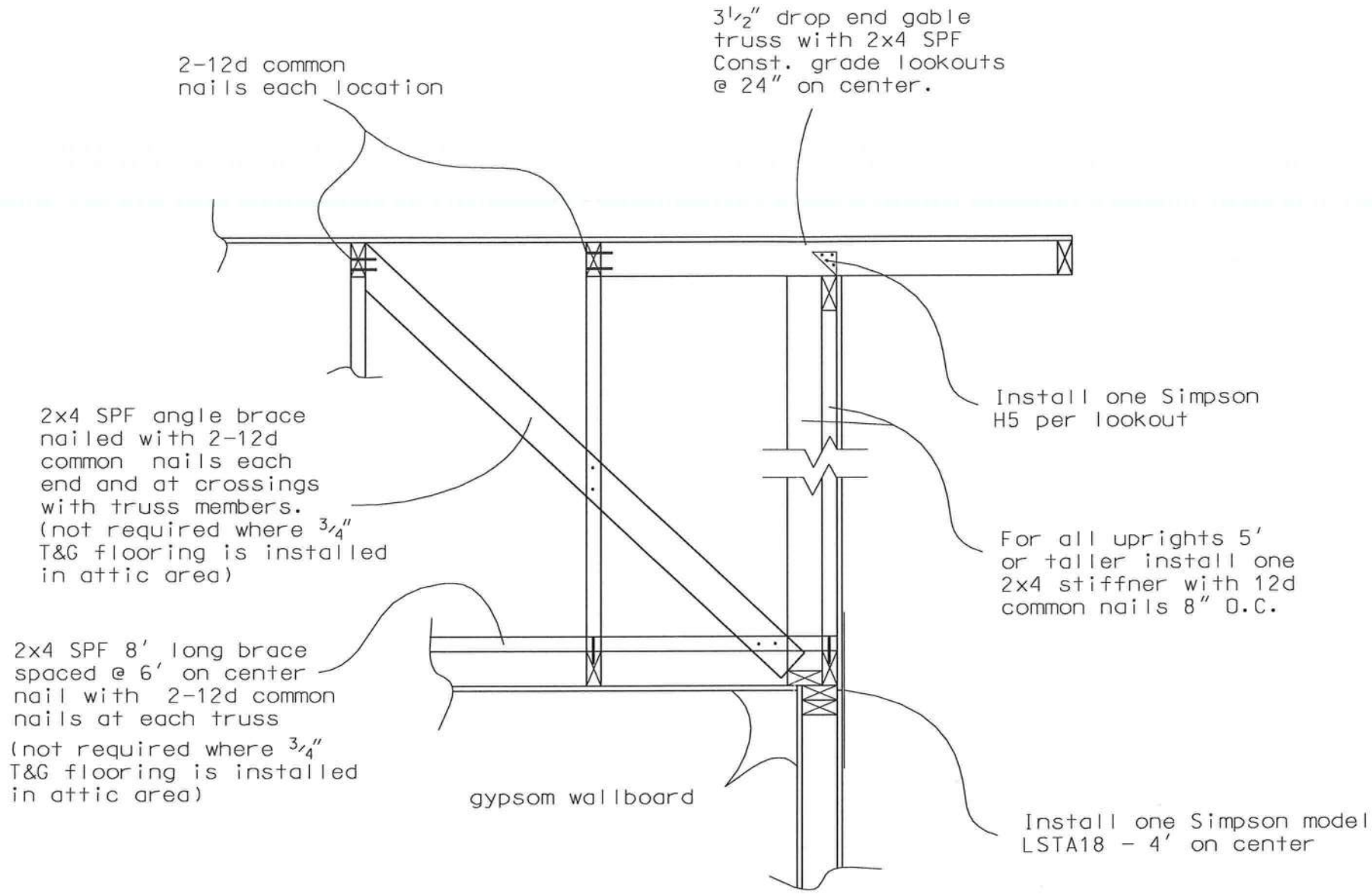

GABLE END BRACING
DETAIL (N.T.S.)

Note: where 3/4" T&G plywood subfloor is applied to floor of upstairs bedrooms bracing requirements do not apply.

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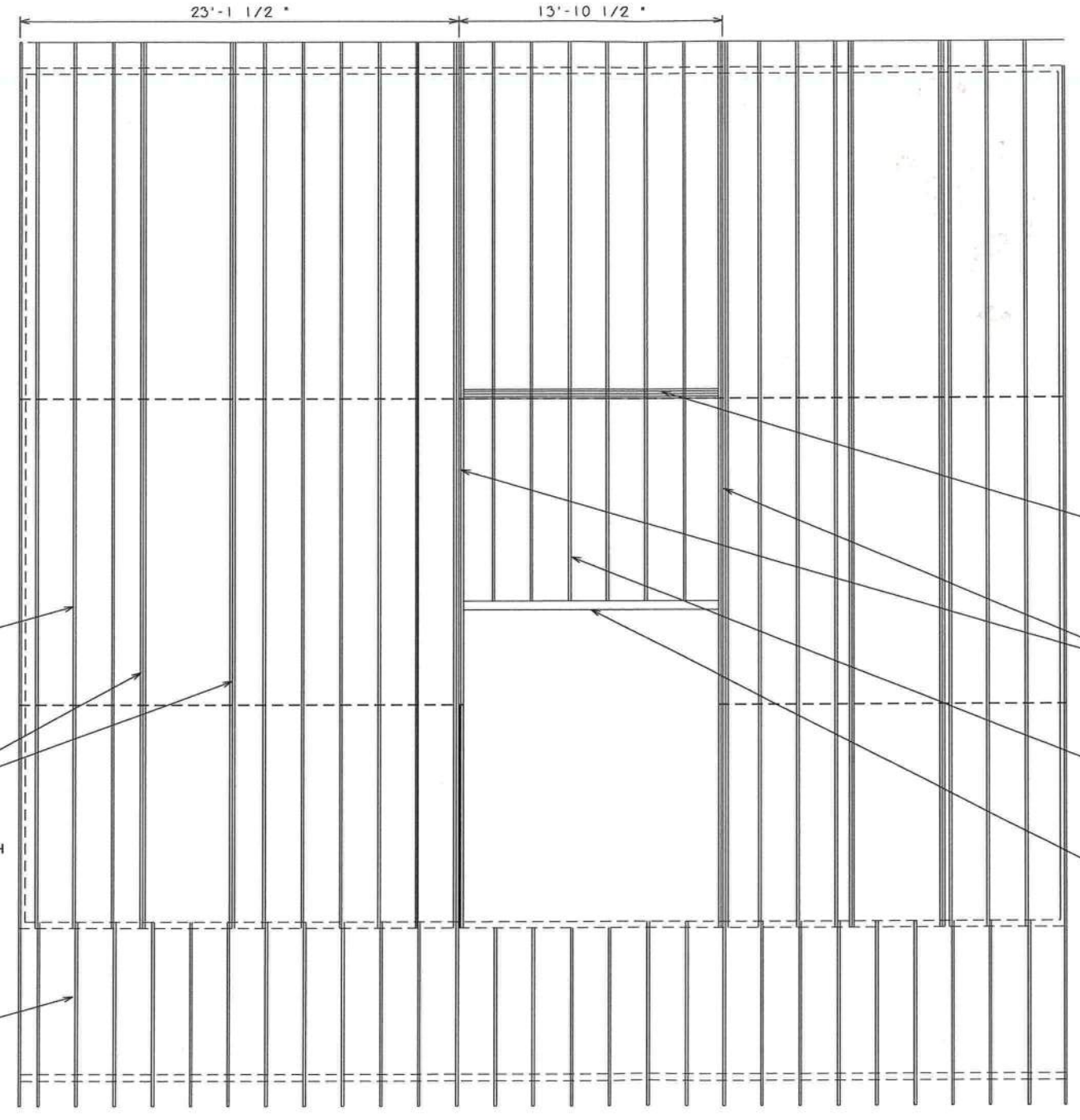
SHEET 3 OF 6



TRUSS LAYOUT

0 4' 8'
scale

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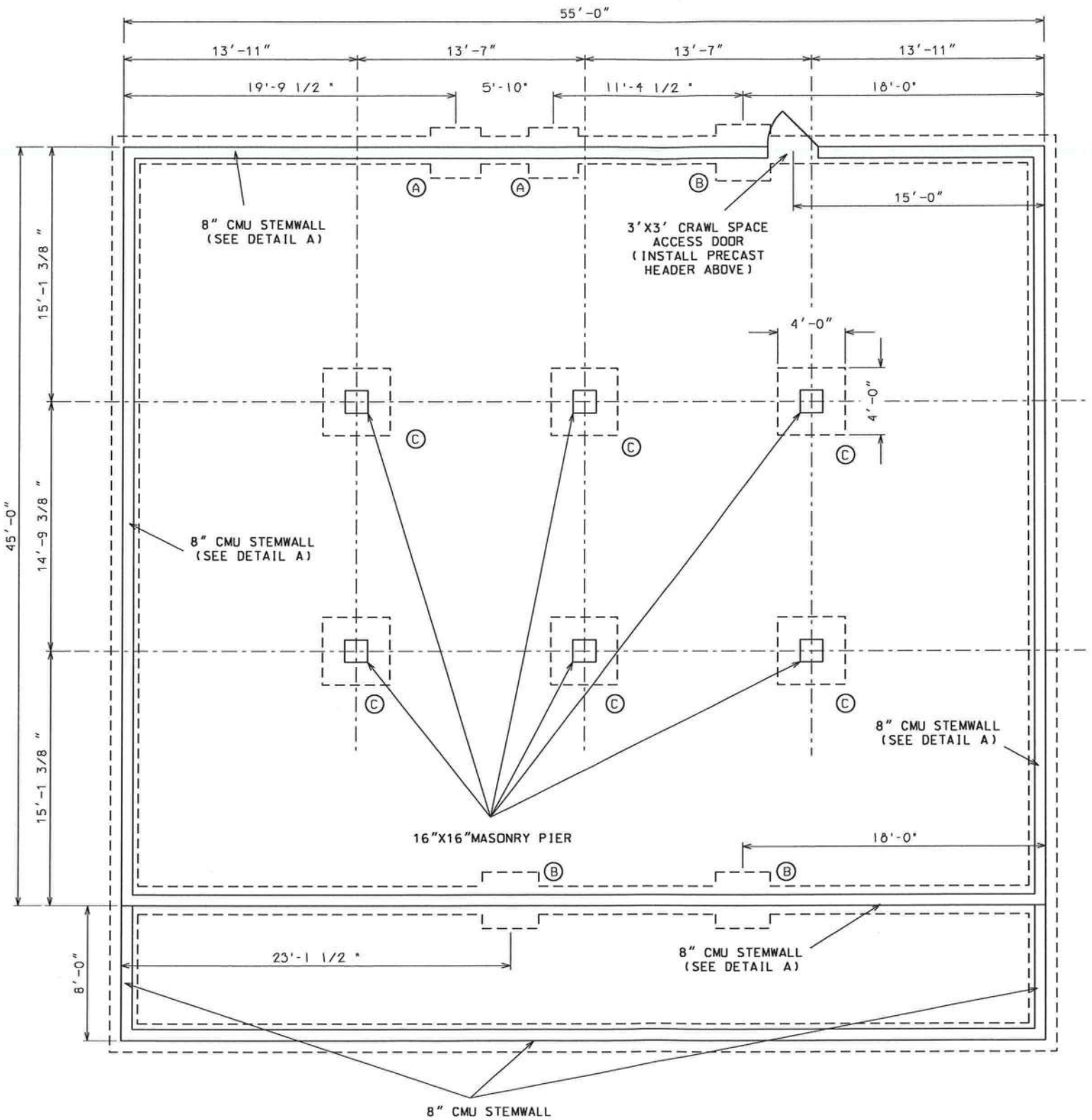
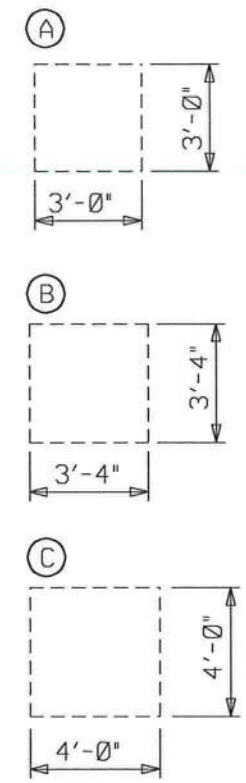
SHEET 6 OF 6





special footers

1.) Footer "A" shall be 14" thick with one reinf. mat of 5-#5 rebars each way. (3000 psi conc.)

2.) Footer "B" shall be 14" thick with one reinf. mat of 6-#5 rebars each way. (3000 psi conc.)

3.) Footer "C" shall be 14" thick with one reinf. mat of 7-#5 rebars each way. (3000 psi conc.)
16"x16" masonry block pier shall be poured solid with 3000 psi concrete and shall have 2 #5 vertical rebars with 10" bend each end.

NOTE: CONTRACTOR SHALL PROVIDE VENTILATION FOR FOUNDATIOON AREA PER FBC.

FOUNDATION PLAN

0 4' 8'
scale

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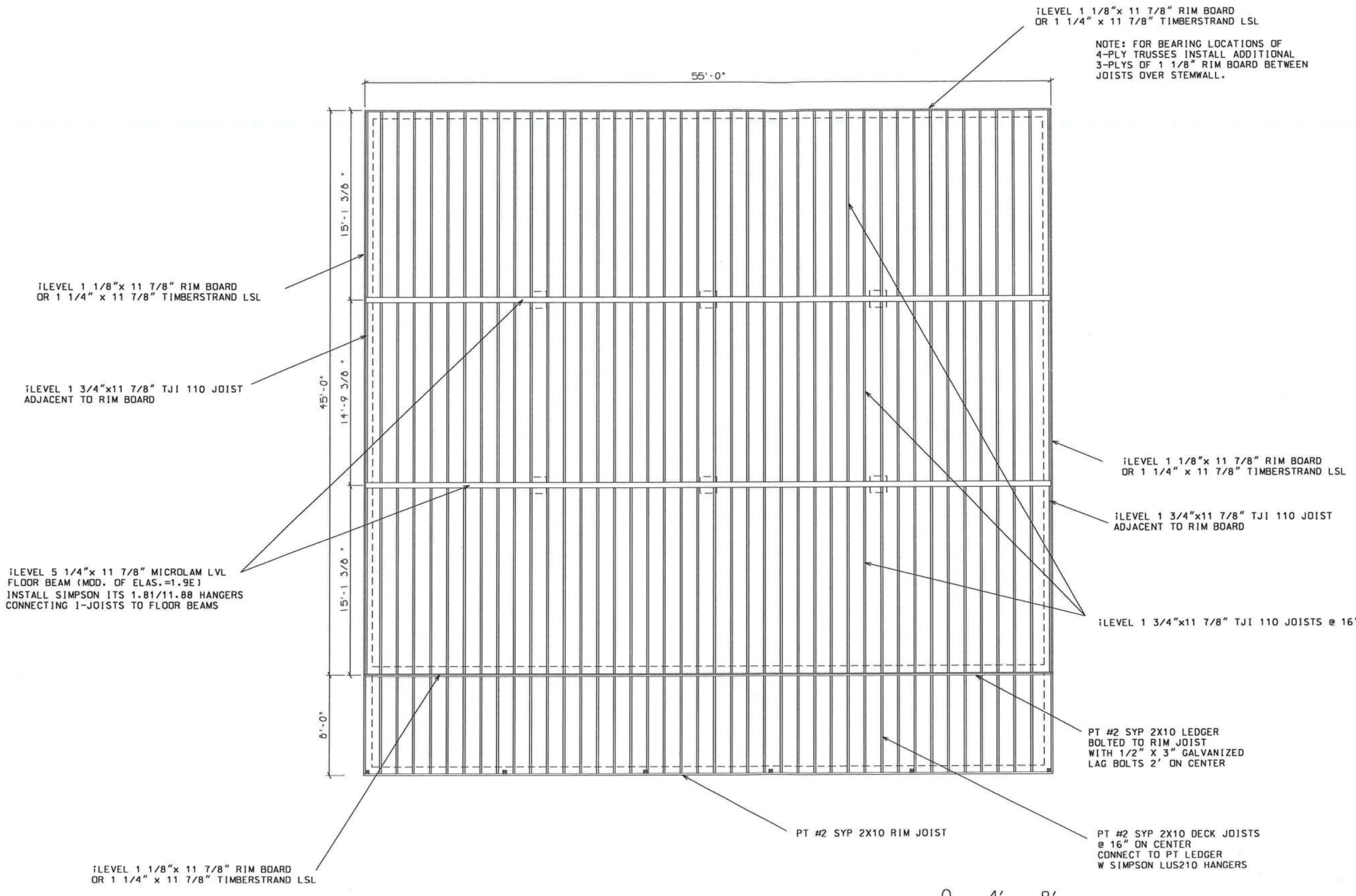

FLOOR FRAMING PLAN

0 4' 8'
scale

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SHEET 5 OF 6