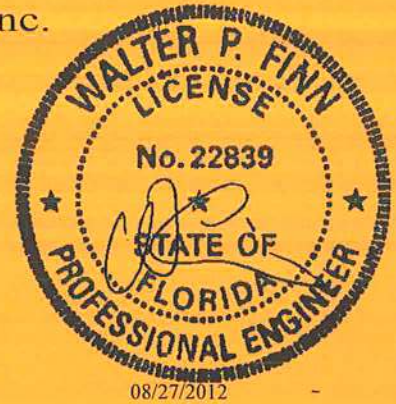


16

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID: IUP09114Z0127084115



Truss Fabricator: Anderson Truss Company
Job Identification: 12-209--Glenwood King Norris Res. -- , FL 32055
Truss Count: 9
Model Code: Florida Building Code 2010
Truss Criteria: FBC2010Res/TPI-2007(STD)
Engineering Software: Alpine Software, Version 10.03.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
the seal date per section 61G15-31.003(5a) of the FAC
Address: Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 120 MPH ASCE 7-10 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR9114

Walter P. Finn
-Truss Design Engineer-

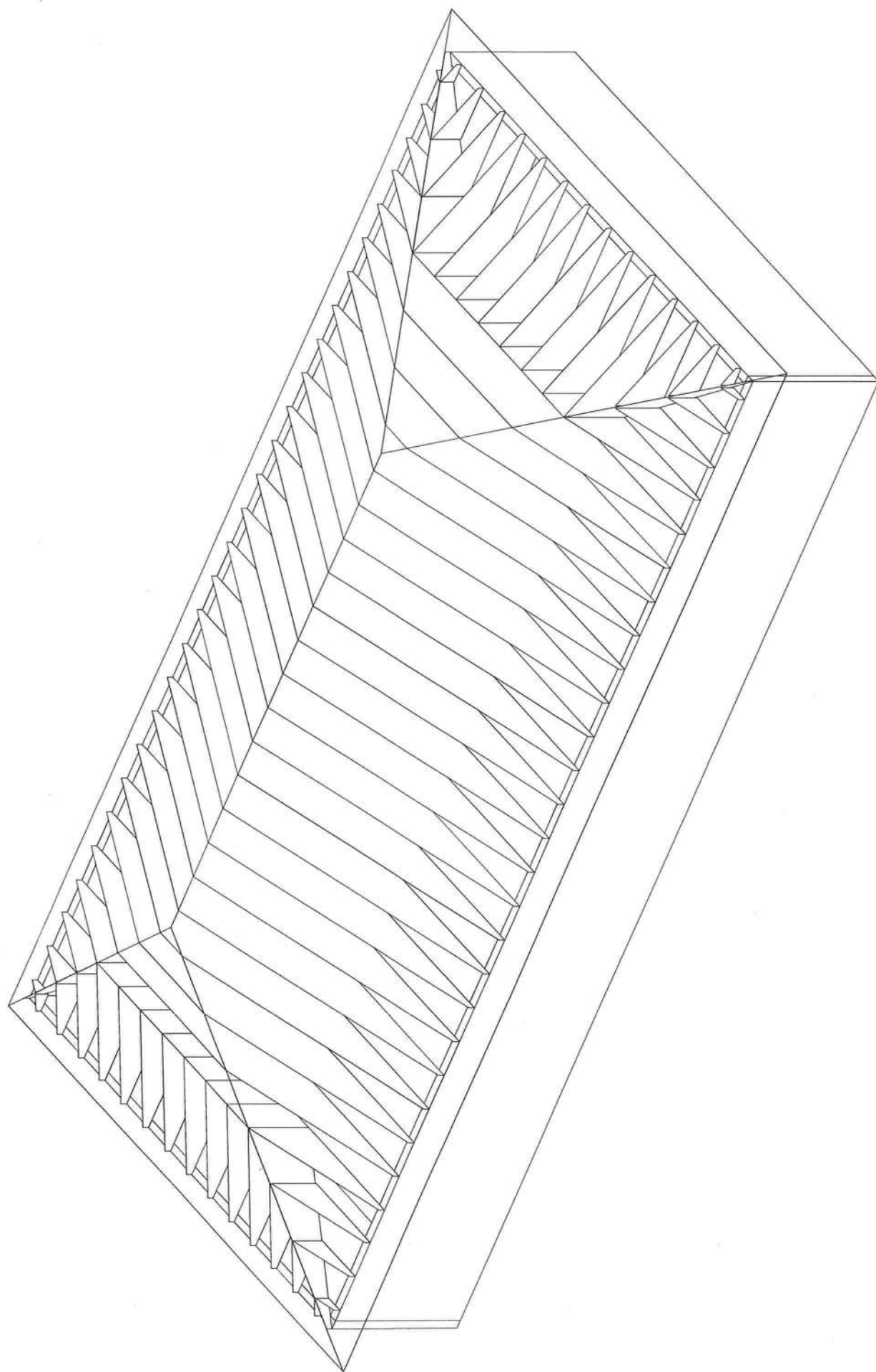
1950 Marley Drive
Haines City, FL 33844

Details: BRCLBSUB-

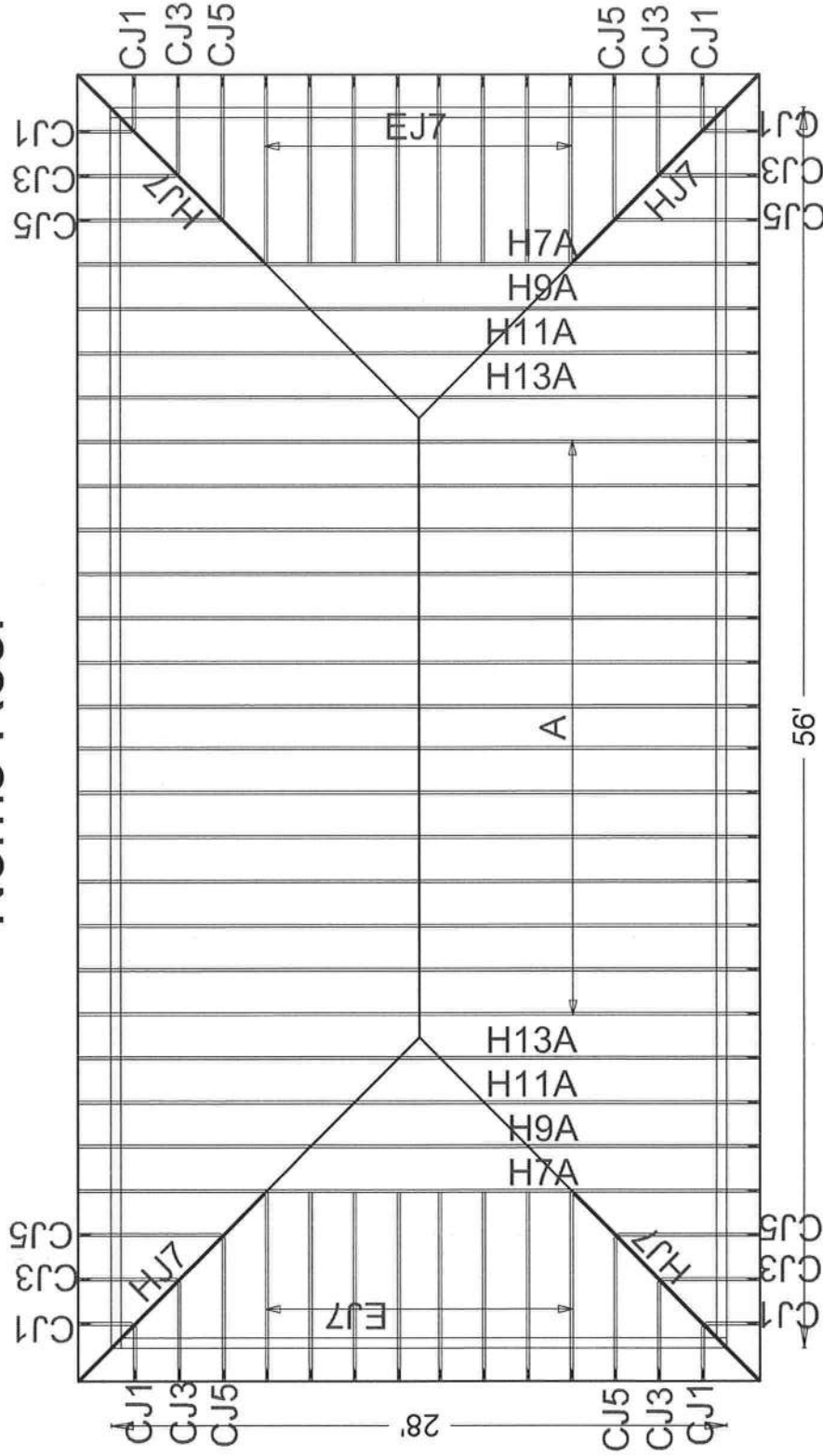
#	Ref	Description	Drawing#	Date
1	48776-H13A	28' Stepdown	12240001	08/27/12
2	48777-H11A	28' Stepdown	12240002	08/27/12
3	48778-H9A	28' Stepdown	12240003	08/27/12
4	48779--A	28' Common	12240004	08/27/12
5	48780--CJ5	5' Jack	12240005	08/27/12
6	48781--CJ1	1' Jack	12240006	08/27/12
7	48782--CJ3	3' Jack	12240007	08/27/12
8	48783--EJ7	7' End Jack	12240008	08/27/12
9	48784-T2	28' Stepdown	12240009	08/27/12

ALPINE





Norris Res.



Total Plan Area with OHs = 1829 sq.ft
 Roof Plane Sheathing Area = 2045 sq. ft
 Total Truss Quantity = 66.

Location:
 JOB DESCRIPTION: Glenwood King
 / Norris Res.

JOB NO:
 12-209

PAGE NO:
 1 OF 1

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top	chord	2x4	SP	#1
Bot	chord	2x4	SP	#1
	Webs	2x4	SP	#3

Roof overhang supports 2.00 psf soffit load.

(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.) nails @ 6" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

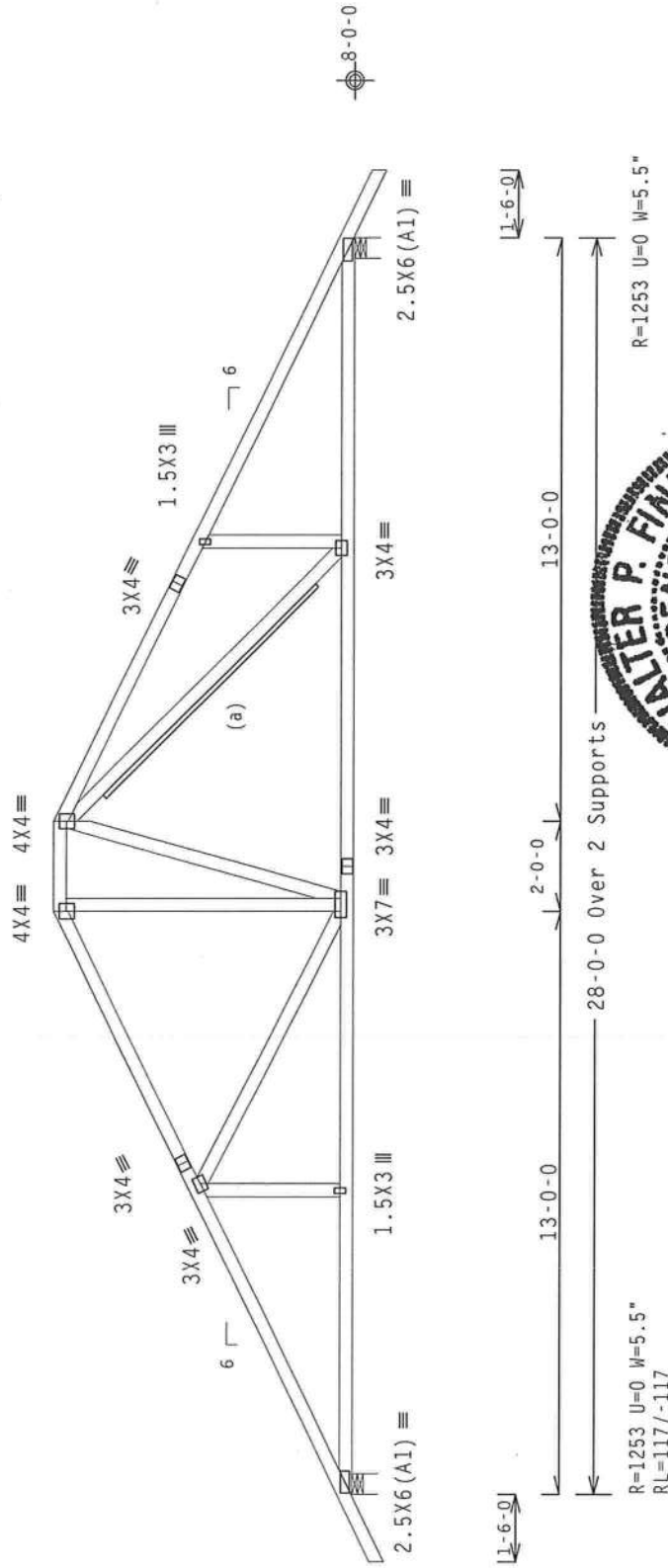
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

10:03. No 22839

Scale = .25"/Ft.

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
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Unless noted otherwise, no chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per RCSD sections 83, 88 or 810, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. ITWBCG shall be responsible for the design of the truss, including the design of the bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the building Designer per ANSI/TPI 1 sec.2. For more information see: THIS JOB'S SPECIFICATIONS. ITWBCG is a registered company of ITW. ITW logo: www.itwbcg.com; ITW: www.itw.com; MICA: www.micainformation.org; AISC: www.aisc.org.

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

The seal is circular with the text "STATE OF FLORIDA" at the top and "PROFESSIONAL ENGINEER" at the bottom. In the center, it reads "No. 12546". A signature, "J. M. Smith", is written across the seal.

TC LL	20.0 PSF	REF R9114- 48776
TC DL	10.0 PSF	DATE 08/27/12
BC DL	10.0 PSF	DRW HCUR9114 1224000
BC LL	0.0 PSF	HC-ENG JB/WPF
TOT.LD.	40.0 PSF	SEQN- 290317
DUR.FAC.	1.25	
SPACING	24.0"	JRFE- 1UP09114701

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

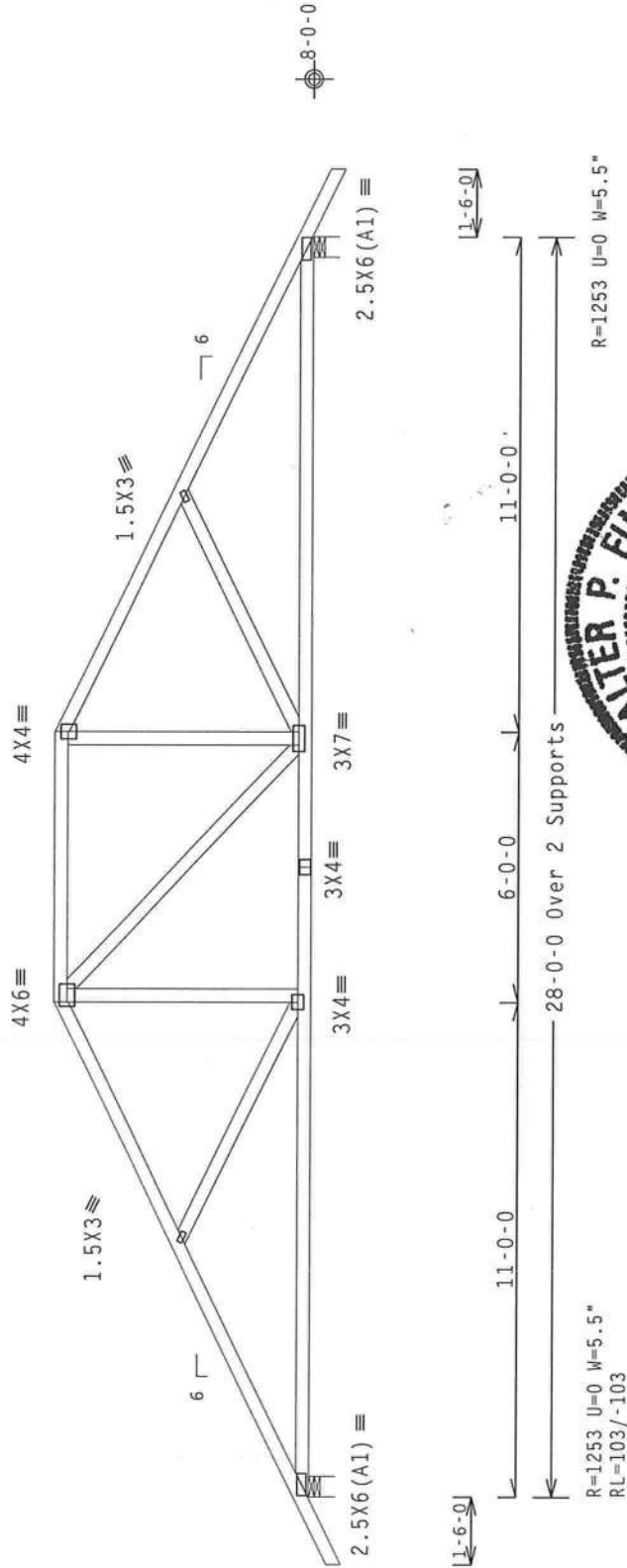
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

Wind loads and reactions based on MWFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=10% (0%) / 0 (0)

PLT TYP. Wave

Scale = .25" / Ft.

TC LL	20.0 PSF	REF	R9114- 48777
TC DL	10.0 PSF	DATE	08/27/12
BC DL	10.0 PSF	DRW	HCUSR9114 12240002
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	40.0 PSF	SEQN	290319
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1UP09114Z01



ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18

(a) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

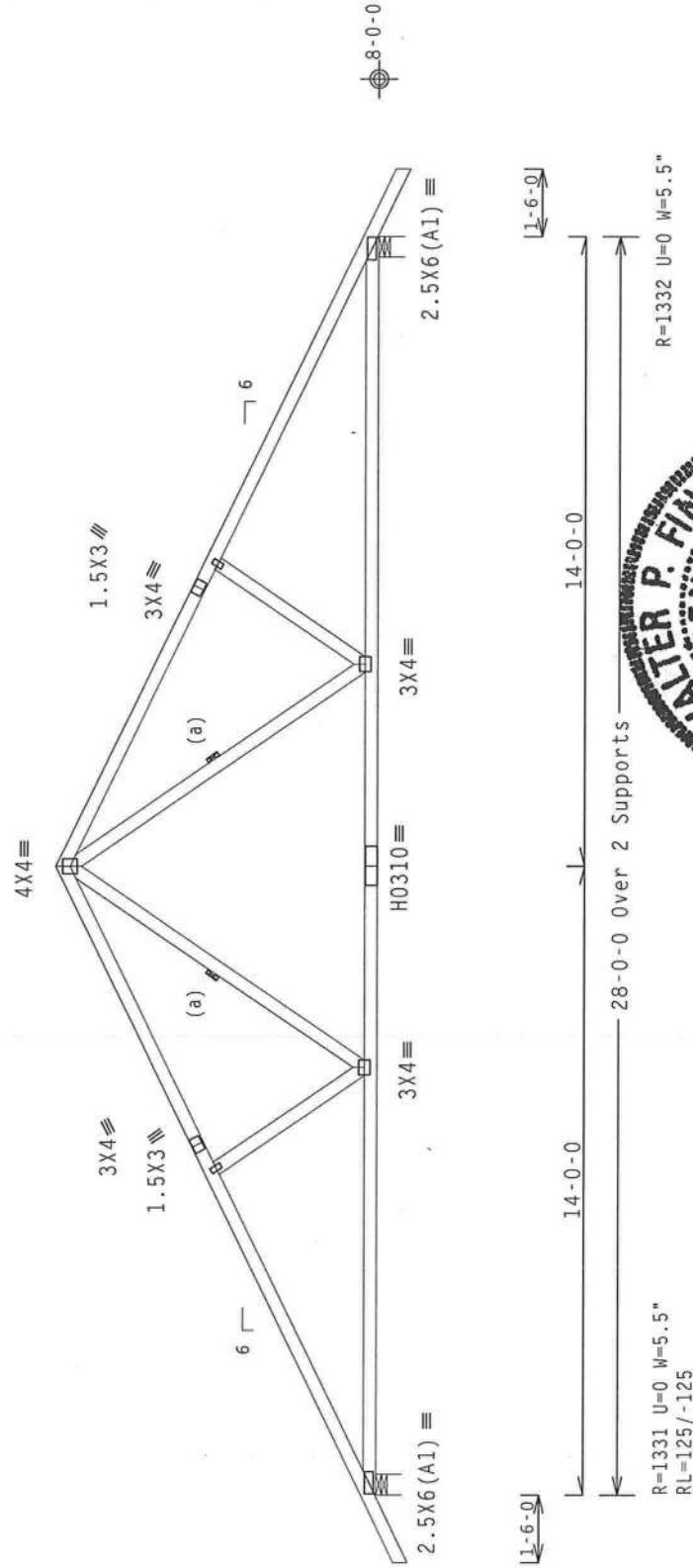
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

Wind loads and reactions based on MWFRS with additional C&C member design.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.



PLT TYP. 20 Gauge HS.Wave

Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=10%(0%)/0(0)

Scale = .25"/Ft.

ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	**IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. It is the responsibility of the truss manufacturer to provide complete and accurate drawings and specifications. The truss manufacturer shall be responsible for any deviation from the design shown. The suitability and use of this design for any structure is the responsibility of the user. This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org		1003.No.22839	20TY 4	FL/-/4/-/R/-	TC LL	20.0 PSF	REF R9114- 48779
						TC DL	10.0 PSF	DATE 08/27/12
						BC DL	10.0 PSF	DRW HCUSR9114 12240004
						BC LL	0.0 PSF	HC-ENG JB/WPF
						TOT.LD.	40.0 PSF	SEQN- 290323
						DUR.FAC.	1.25	
						SPACING	24.0"	JREF- 1UP09114Z01



(12-209--Glenwood King Norris Res. --, FL 32055 - CJ1 1' Jack)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1

Bottom chord checked for 10.00 psf non-concurrent live load.

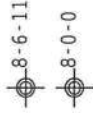
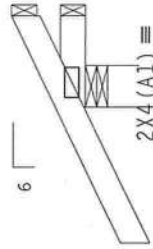
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

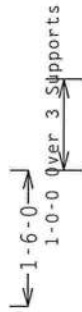
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

R=-55 Rw=16 U=40



R=5 Rw=10 U=10



R=253 U=22 W=5.5"
RL=20

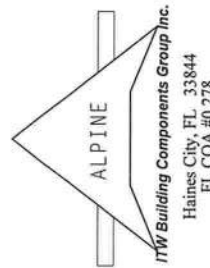
Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=10%(0%) 0(0)

PLT TYP. Wave

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

****IMPORTANT**** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and NTCI) for details. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering the responsibility of the Building Component Safety Information (BCSI) and use of this design for any structure is the responsibility of the user. ITWBCG does not warrant the accuracy of this design. This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; NTCI: www.ntciindustry.com; ICC: www.iccsafe.org



FL / - / 4 / - / - / R / -	Scale = .5" / Ft.
TC LL 20.0 PSF	REF R9114- 48781
TC DL 10.0 PSF	DATE 08/27/12
BC DL 10.0 PSF	DRW HCUSR9114 12240006
BC LL 0.0 PSF	HC-ENG JB/WPF
TOT.LD. 40.0 PSF	SEQN - 290331
DUR.FAC. 1.25	
SPACING 24.0"	JREF - 1UP09114201

08/27/2012

(12-209--Glenwood King Norris Res. --, FL 32055 - CJ3 3' Jack)

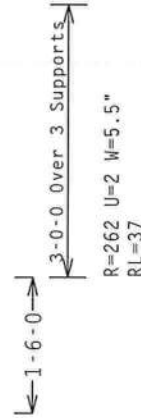
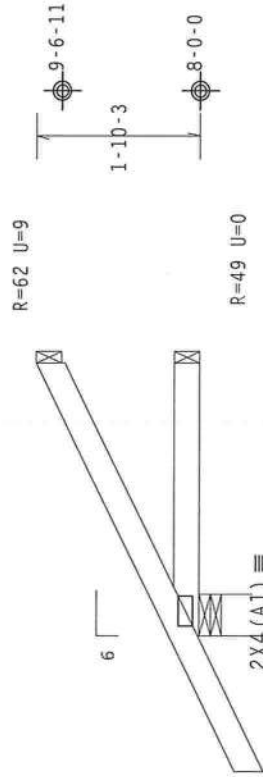
Top chord 2x4 SP #1
Bot chord 2x4 SP #1

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

120 mph wind, 15.00 ft mean hgt., ASCE 7-10, CLOSED bldg. Located anywhere in roof. RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

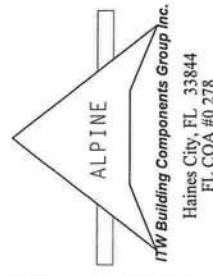
Wind loads and reactions based on MWFRS with additional C&C member design.



Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=10% (0%) / 0 (0)

PLT TYP. Wave

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering the responsibility of the building designer. The building designer shall provide the building designer with the general notes page: ITW-BCSI: www.itw-bcsi.com; TPI: www.tpi.net; WCA: www.wcaindustry.com; ICC: www.iccsafe.org
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering the responsibility of the building designer. The building designer shall provide the building designer with the general notes page: ITW-BCSI: www.itw-bcsi.com; TPI: www.tpi.net; WCA: www.wcaindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF	R9114- 48782
TC DL	10.0 PSF	DATE	08/27/12
BC DL	10.0 PSF	DRW	HCUSR9114 12240007
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	40.0 PSF	SEQN-	290332
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UP09114Z01

(12-209--Glenwood King Norris Res. --, FL 32055 - EJ7 7' End Jack)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1

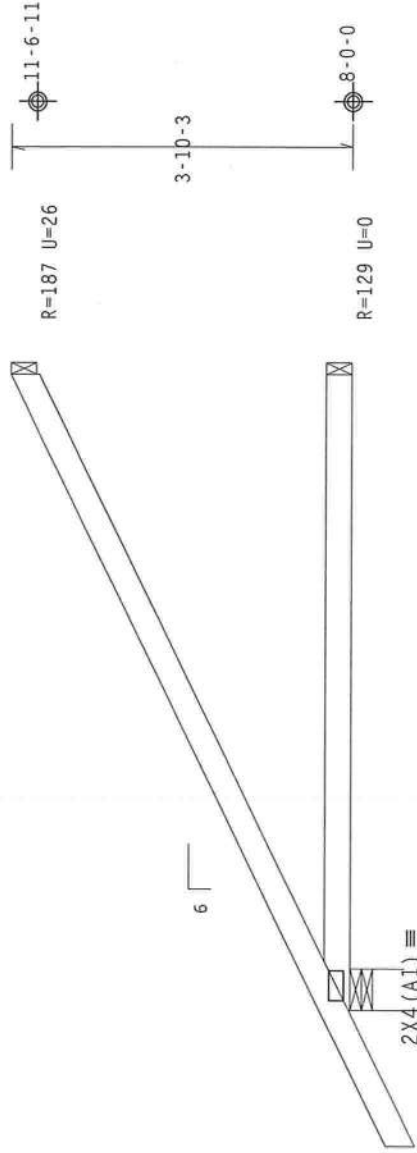
Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

120 mph wind, 15.00 ft mean hgt. ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge. RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



1'-6-0 → 7-0-0 Over 3 Supports

R=408 U=0 W=5.485"

RL=70/-27

Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=10%(0%) 70(0)

PLT TYP. Wave

10.03. No 22839		6 FL/-/4/-/-/R/-	Scale = 5"/Ft.
TY		TC LL	20.0 PSF
		TC DL	10.0 PSF
		BC DL	10.0 PSF
		BC LL	0.0 PSF
		TOT.LD.	40.0 PSF
		DUR.FAC.	1.25
		SPACING	24.0"
		REF	R9114- 48783
		DATE	08/27/12
		DRW	HCUSR9114 12240008
		HC-ENG	JB/WPF
		SEQN	290336
		JREF	1UP09114Z01



WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for details. Unless noted otherwise, top chord shall have properly attached and installed temporary bracing per BCSI. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint. ITC Building Components Group Inc. (ITWBCGI) shall not be responsible for any deviation from this bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.bcsiindustry.com; ICC: www.iccsafe.org



(12-209--Glenwood King Norris Res. -- , FL 32055 - T2 28' Stepdown Hip Girder)

Top chord 2x4 SP #1 :T2 2x6 SP #2:
Bot chord 2x6 SP #2
Webs 2x4 SP #3

Special loads

----- (Lumber Dur.Fac=1.25 / Plate Dur.Fac=1.25)
IC- From 62 pif at -1.50 to 62 pif at 7.00
TC- From 31 pif at 7.00 to 31 pif at 21.00
TC- From 62 pif at 21.00 to 62 pif at 29.50
BC- From 4 pif at -1.50 to 4 pif at 0.00
BC- From 20 pif at 0.00 to 20 pif at 7.02
BC- From 10 pif at 7.02 to 10 pif at 20.98
BC- From 20 pif at 20.98 to 20 pif at 28.00
BC- From 4 pif at 28.00 to 4 pif at 29.50
IC- 187.33 lb Conc. Load at 7.02, 9.06, 11.06, 13.06
14.94, 16.94, 18.94, 20.98
BC- 128.63 lb Conc. Load at 7.02, 9.06, 11.06, 13.06
14.94, 16.94, 18.94, 20.98

Wind loads and reactions based on MWFRS with additional C&C member design.

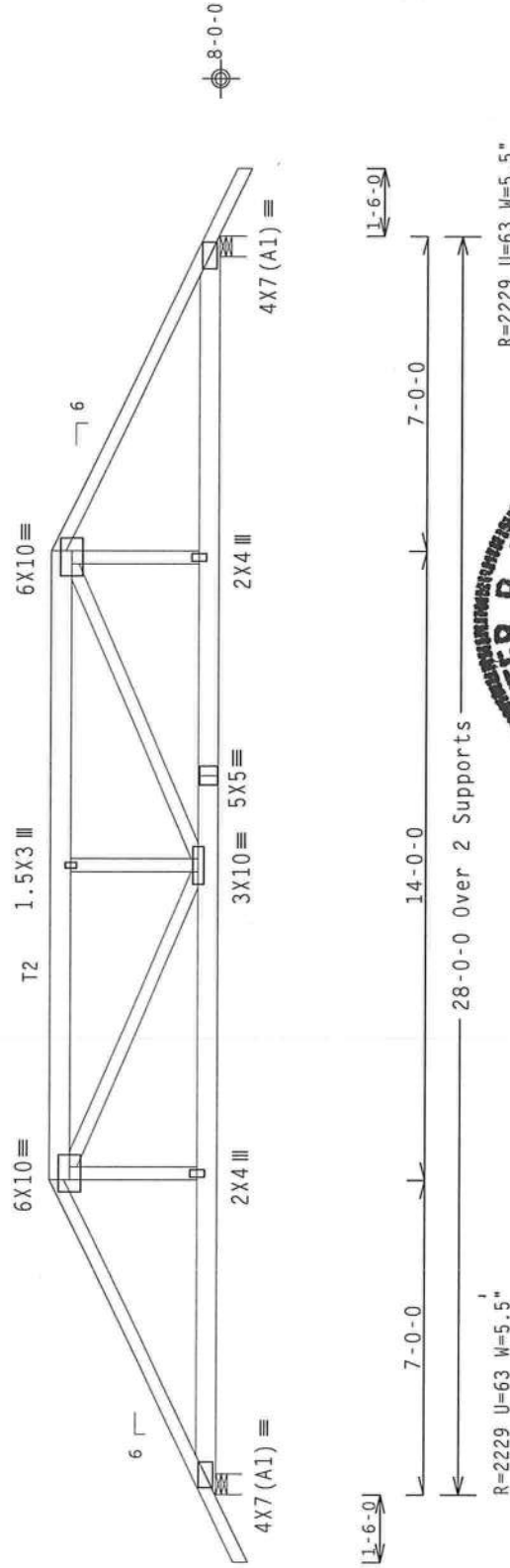
This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: FBC2010Res/TPI-2007 (ST) FT/RT=10%(0%) 70(0)

PLT TYP. Wave

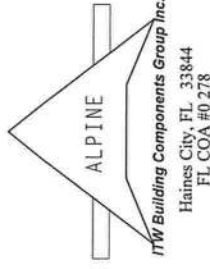
TC LL	20.0 PSF	FL / - / 4 / - / - / R / -	Scale = .25" / Ft.
TC DL	10.0 PSF		REF R9114- 48784
BC DL	10.0 PSF		DATE 08/27/12
BC LL	0.0 PSF		DRW HCUSR9114 12240009
TOT.LD.	40.0 PSF		HC-ENG JB/WPF
DUR.FAC.	1.25		SEQN- 290359
SPACING	24.0"		JREF- 1UP09114Z01



WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET! FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Trusses are designed and fabricated in accordance with the American Institute of Steel Construction, Inc. (AISC) Building Component Safety Information, by TPI and MTA. Trusses shall be installed in accordance with the AISC and MTA instructions. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BC5; sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCGI) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal of the building designer is required on this drawing. Indicates acceptance of professional engineering responsibility of the Building Designer per ANSI/TPI 1.1.2.3. For more information, please refer to the general notes page: ITW-BCGI: www.itwbcgi.com; TPI: www.tpinet.org; MTA: www.mtaindustry.com; ICC: www.iccsafe.org



ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID: IUP09114Z0327093243



Truss Fabricator: Anderson Truss Company
Job Identification: 12-209--Glenwood King Norris Res. -- , FL 32055
Truss Count: 1
Model Code: Florida Building Code 2010
Truss Criteria: FBC2010Res/TPI-2007(STD)
Engineering Software: Alpine Software, Version 10.03.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
Address: the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 120 MPH ASCE 7-10 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR9114

Walter P. Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: -

#	Ref	Description	Drawing#	Date
1	49012-HJ7	9'10"13 Hip	12240011	08/27/12

ALPINE

This design is based on lumber values in effect prior to June 1, 2012 and shall only be used on projects designed and permitted prior to this date unless specifically approved in writing by the building authority having jurisdiction, the building designer and the project owner.

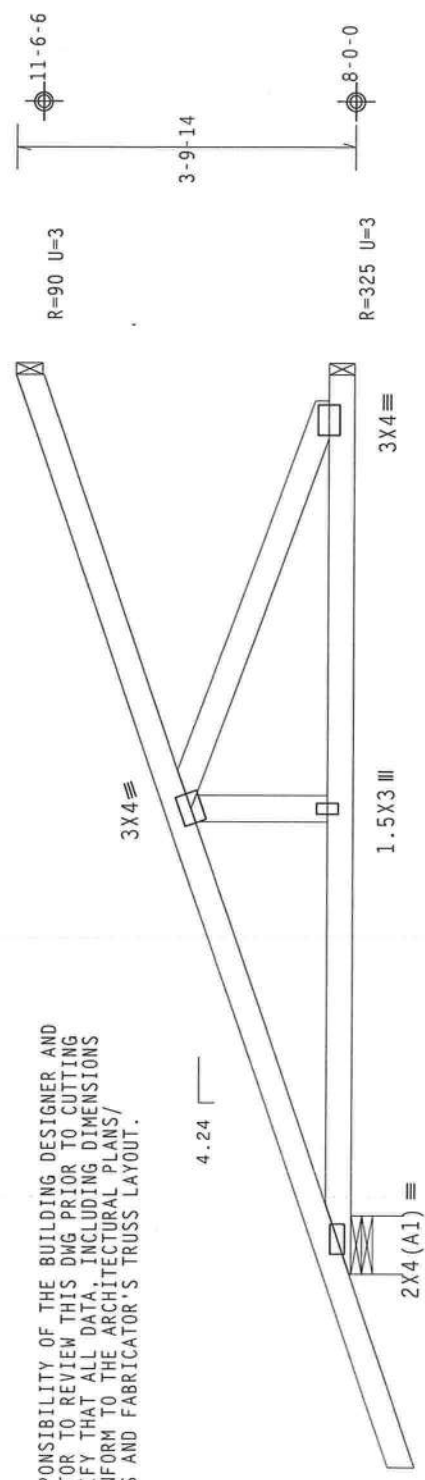
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18
Bottom chord checked for 10.00 psf non-concurrent live load.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Special loads

TC- From	Dur.Fac.=1.25 / Plate Dur.Fac.=1.25
TC- From	0 pif at -2.12 to 61 pif at 0.00
TC- From	2 pif at 0.00 to 2 pif at 9.90
BC- From	0 pif at -2.12 to 4 pif at 0.00
BC- From	2 pif at 0.00 to 2 pif at 9.90
TC- -42.32 lb Conc. Load at 1.48	
TC- 124.06 lb Conc. Load at 4.31	
TC- 254.85 lb Conc. Load at 7.13	
BC- 9.84 lb Conc. Load at 1.48	
BC- 98.61 lb Conc. Load at 4.31	
BC- 178.95 lb Conc. Load at 7.13	

Wind loads and reactions based on MMFRS with additional C&C member design.

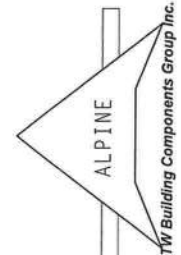
IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER AND TRUSS FABRICATOR TO REVIEW THIS DWG PRIOR TO CUTTING LUMBER TO VERIFY THAT ALL DATA, INCLUDING DIMENSIONS AND LOADS, CONFORM TO THE ARCHITECTURAL PLANS/SPECIFICATIONS AND FABRICATOR'S TRUSS LAYOUT.



2-1-7
9-10-13 Over 3 Supports
R=368 U=87 W=7.778"



Design Crit: FBC2010Res/TPI-2007 (STD FT/RT=10% (0%) (0 (0))

PLT TYP. Wave	10-03-11 022839	QTY 4	FL/-4/-/-R/-	Scale = .5" / Ft.	
 ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.			TC LL 20.0 PSF	REF R9114- 49012
	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) practices prior to performing these functions. Installers shall provide temporary bracing and bracing details. Top chord shall have properly attached structural sheathing and both chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.			TC DL 10.0 PSF	DATE 08/27/12
	ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: This Job's ICCI: www.tccsafe.org ITW BCSI: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.bcsiindustry.com			BC DL 10.0 PSF	DRW HCUSR9114 12240011
				BC LL 0.0 PSF	HC-ENG JB/WPF
				TOT.LD. 40.0 PSF	SEQN - 290365
				DUR.FAC. 1.25	JREF - 1UP09114Z03
			SPACING 24.0"		

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 1210057
 Street:
 City, State, Zip: , FL ,
 Owner: Norris
 Design Location: FL, Gainesville

Builder Name: Glenwood King
 Permit Office:
 Permit Number:
 Jurisdiction:

1. New construction or existing New (From Plans)
 2. Single family or multiple family Single-family
 3. Number of units, if multiple family 1
 4. Number of Bedrooms 2
 5. Is this a worst case? Yes
 6. Conditioned floor area above grade (ft²) 1568
 Conditioned floor area below grade (ft²) 0

7. Windows(97.3 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.35	97.33 ft ²
SHGC:	SHGC=0.35	
b. U-Factor:	N/A	ft ²
SHGC:		
c. U-Factor:	N/A	ft ²
SHGC:		
d. U-Factor:	N/A	ft ²
SHGC:		

Area Weighted Average Overhang Depth: 1.500 ft.
 Area Weighted Average SHGC: 0.350

8. Floor Types (1568.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1568.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²

9. Wall Types (1344.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1344.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²
d. N/A	R=	ft ²

10. Ceiling Types (1568.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=30.0	1568.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²

11. Ducts	R	ft ²
a. Sup: Attic, Ret: Attic, AH: Main	6	313.6

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	33.0	SEER:13.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	33.0	HSPF:7.70

14. Hot water systems	Cap: 40 gallons	EF: 0.920
a. Electric		
b. Conservation features		
None		

15. Credits	Pstat

Glass/Floor Area: 0.062

Total Proposed Modified Loads: 26.69

Total Standard Reference Loads: 34.24

PASS

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

PREPARED BY:

DATE: 11/6/12

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: Glenwood King

DATE: 12-5-12

Review of the 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 with Section 553.908 Florida Statutes.



BUILDING OFFICIAL:

DATE:

- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist



PROJECT

Title: 1210057	Bedrooms: 2	Address Type: Street Address
Building Type: User	Conditioned Area: 1568	Lot #
Owner: Norris	Total Stories: 1	Block/SubDivision:
# of Units: 1	Worst Case: Yes	PlatBook:
Builder Name: Glenwood King	Rotate Angle: 90	Street:
Permit Office:	Cross Ventilation:	County: Columbia
Jurisdiction:	Whole House Fan:	City, State, Zip: , FL ,
Family Type: Single-family		
New/Existing: New (From Plans)		
Comment:		

CLIMATE

✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
✓	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	1568	12544

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1568	12544	Yes	4	2	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
✓	1	Slab-On-Grade Edge Insulatio	Main	168 ft	0	1568 ft²	----	0.3	0.3	0.4

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
✓	1	Hip	Composition shingles	1698 ft²	0 ft²	Dark	0.96	No	0.9	No	0	22.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
✓	1	Full attic	Vented	300	1568 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
✓	1	Under Attic (Vented)	Main	30	1568 ft²	0.11	Wood

WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N=>E	Exterior	Frame - Wood	Main	13	56	8	448 ft²		0.23	0.75	0
2	E=>S	Exterior	Frame - Wood	Main	13	28	8	224 ft²		0.23	0.75	0
3	S=>W	Exterior	Frame - Wood	Main	13	56	8	448 ft²		0.23	0.75	0
4	W=>N	Exterior	Frame - Wood	Main	13	28	8	224 ft²		0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area
1	N=>E	Insulated	Main	None	0.400000	1	6 8	6.666666
2	E=>S	Insulated	Main	None	0.400000	1	6 8	20 ft²
3	E=>S	Insulated	Main	None	0.400000	1	6 8	20 ft²

WINDOWS

Orientation shown is the entered orientation (=>) changed to Worst Case.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Area	Overhang Depth	Separation	Int Shade	Screening
1	N=>E	1	Metal	Low-E Double	Yes	0.35	0.35	15 ft²	1 ft 6 in	1 ft 0 in	None	None
2	N=>E	1	Metal	Low-E Double	Yes	0.35	0.35	9 ft²	1 ft 6 in	1 ft 0 in	None	None
3	N=>E	1	Metal	Low-E Double	Yes	0.35	0.35	13.33333	1 ft 6 in	1 ft 0 in	None	None
4	S=>W	3	Metal	Low-E Double	Yes	0.35	0.35	60 ft²	1 ft 6 in	1 ft 0 in	None	None

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Best Guess	0.000699	2879.0	158.05	297.24	0.5389	13.770

HEATING SYSTEM

✓ #	System Type	Subtype	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump	None	HSPF: 7.7	33 kBtu/hr	1	sys#1

COOLING SYSTEM

✓ #	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
1	Central Unit	None	SEER: 13	33 kBtu/hr	990 cfm	0.75	1	sys#1

HOT WATER SYSTEM

✓ #	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
1	Electric	None	Main	0.92	40 gal	50 gal	120 deg	None

SOLAR HOT WATER SYSTEM

✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
—	None	None			ft²		

DUCTS

✓	#	--- Supply ---			--- Return ---		Leakage Type	Air		Percent		HVAC #		
		Location	R-Value	Area	Location	Area		Handler	CFM 25	Leakage	QN	RLF	Heat	Cool
_____	1	Attic	6	313.6 ft	Attic	78.4 ft²	Default Leakage	Main	(Default)	(Default) %			1	1

TEMPERATURES	
--------------	--

[illegible]

Florida Code Compliance Checklist

Florida Department of Business and Professional Regulations
Residential Whole Building Performance Method

ADDRESS:

, FL,

PERMIT #:

MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.	
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	
Ducts	403.2.2	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code.	
	403.3.3	Building framing cavities shall not be used as supply ducts.	
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	
Mechanical ventilation	403.5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	
Swimming Pools & Spas	403.9	Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	
Ceilings/knee walls	405.2.1	R-19 space permitting.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 78

The lower the EnergyPerformance Index, the more efficient the home.

, , FL,

1. New construction or existing	New (From Plans)		9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family		a. Frame - Wood, Exterior	R=13.0	1344.00 ft ²
3. Number of units, if multiple family	1		b. N/A	R=	ft ²
4. Number of Bedrooms	2		c. N/A	R=	ft ²
5. Is this a worst case?	Yes		d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	1568		10. Ceiling Types	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=30.0	1568.00 ft ²
a. U-Factor:	DbI, U=0.35	97.33 ft ²	b. N/A	R=	ft ²
SHGC:	SHGC=0.35		c. N/A	R=	ft ²
b. U-Factor:	N/A	ft ²	11. Ducts		R ft ²
SHGC:			a. Sup: Attic, Ret: Attic, AH: Main	6	313.6
c. U-Factor:	N/A	ft ²	12. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	33.0	SEER:13.00
d. U-Factor:	N/A	ft ²	13. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	33.0	HSPF:7.70
Area Weighted Average Overhang Depth:	1.500 ft.		14. Hot water systems		
Area Weighted Average SHGC:	0.350		a. Electric	Cap: 40 gallons	
8. Floor Types	Insulation	Area		EF: 0.92	
a. Slab-On-Grade Edge Insulation	R=0.0	1568.00 ft ²	b. Conservation features		
b. N/A	R=	ft ²	None		
c. N/A	R=	ft ²	15. Credits	Pstat	

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

Builder Signature: Blenwood King
Address of New Home: 854 SW Charles Terrace

Date: 12-5-12
City/FL Zip: LC FL 32024



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Residential System Sizing Calculation

Summary

Norris

Project Title:
1210057

, FL

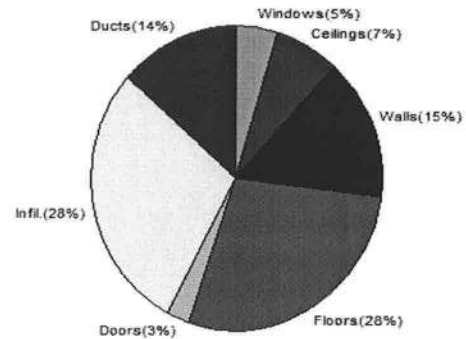
11/6/2012

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature(MJ8 99%)	33	F	Summer design temperature(MJ8 99%)	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	25907	Btuh	Total cooling load calculation	27822	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	127.4	33000	Sensible (SHR = 0.75)	117.1	24750
Heat Pump + Auxiliary(0.0kW)	127.4	33000	Latent	123.4	8250
			Total (Electric Heat Pump)	118.6	33000

WINTER CALCULATIONS

Winter Heating Load (for 1568 sqft)

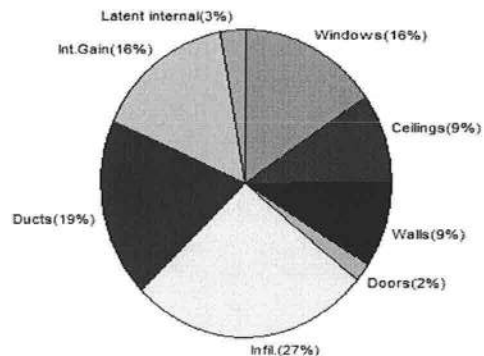
Load component			Load	
Window total	97	sqft	1260	Btuh
Wall total	1200	sqft	3941	Btuh
Door total	47	sqft	691	Btuh
Ceiling total	1568	sqft	1848	Btuh
Floor total	1568	sqft	7335	Btuh
Infiltration	180	cfm	7303	Btuh
Duct loss			3529	Btuh
Subtotal			25907	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			25907	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1568 sqft)

Load component			Load	
Window total	97	sqft	4320	Btuh
Wall total	1200	sqft	2503	Btuh
Door total	47	sqft	523	Btuh
Ceiling total	1568	sqft	2597	Btuh
Floor total			0	Btuh
Infiltration	135	cfm	2517	Btuh
Internal gain			4320	Btuh
Duct gain			4354	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			21134	Btuh
Latent gain(ducts)			946	Btuh
Latent gain(infiltration)			4942	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			800	Btuh
Total latent gain			6688	Btuh
TOTAL HEAT GAIN			27822	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: E. B. BARNES

DATE: 11/6/12

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Norris

Project Title:

1210057

, FL

Building Type: User

11/6/2012

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 37.0 F (MJ8 99%)
This calculation is for Worst Case. The house has been rotated 270 degrees.

Component Loads for Whole House								
Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM=	Load
1	2, NFRC 0.35	Metal	0.35	W	15.0		12.9	194 Btuh
2	2, NFRC 0.35	Metal	0.35	W	9.0		12.9	117 Btuh
3	2, NFRC 0.35	Metal	0.35	W	13.3		12.9	173 Btuh
4	2, NFRC 0.35	Metal	0.35	E	60.0		12.9	777 Btuh
	Window Total				97.3(sqft)			1260 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	404		3.28	1327 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	184		3.28	604 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	388		3.28	1274 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	224		3.28	736 Btuh
	Wall Total				1200(sqft)			3941 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior, n		(0.400)		7		14.8	99 Btuh
2	Insulated - Exterior, n		(0.400)		20		14.8	296 Btuh
3	Insulated - Exterior, n		(0.400)		20		14.8	296 Btuh
	Door Total				47(sqft)			691Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shing		(0.032)	30.0/0.0	1568		1.2	1848 Btuh
	Ceiling Total				1568(sqft)			1848Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	168.0 ft(perim.)		43.7	7335 Btuh
	Floor Total				1568 sqft			7335 Btuh
	Envelope Subtotal:							15075 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		
	Natural		0.86	12544	1.00	180.3		7303 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att)					(DLM of 0.158)		3529 Btuh
All Zones	Sensible Subtotal All Zones							25907 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Norris

Project Title:

1210057

, FL

Building Type: User

11/6/2012

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	25907 Btuh
	Ventilation Sensible Heat Loss	0 Btuh
	Total Heat Loss	25907 Btuh

EQUIPMENT

1. Electric Heat Pump	#	33000 Btuh
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Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)

U - (Window U-Factor)

HTM - (ManualJ Heat Transfer Multiplier)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Norris

Project Title:
1210057

, FL

11/6/2012

Reference City: Gainesville, FL

Temperature Difference: 17.0F(MJ8 99%)

Humidity difference: 54gr.

This calculation is for Worst Case. The house has been rotated 270 degrees.

Component Loads for Whole House

Window	Type*						Overhang		Window Area(sqft)			HTM		Load		
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2 NFRC	0.35, 0.35	No	No	W		1.5ft	1.0ft	15.0	0.7	14.3	13	40	576	Btuh	
2	2 NFRC	0.35, 0.35	No	No	W		1.5ft	1.0ft	9.0	0.7	8.3	13	40	338	Btuh	
3	2 NFRC	0.35, 0.35	No	No	W		1.5ft	1.0ft	13.3	0.5	12.8	13	40	516	Btuh	
4	2 NFRC	0.35, 0.35	No	No	E		1.5ft	1.0ft	60.0	2.9	57.1	13	40	2304	Btuh	
	Excursion													586	Btuh	
	Window Total								97 (sqft)					4320 Btuh		
Walls	Type						U-Value		R-Value		Area(sqft)		HTM		Load	
									Cav/Sheath							
1	Frame - Wood - Ext						0.09		13.0/0.0		404.0		2.1		843	Btuh
2	Frame - Wood - Ext						0.09		13.0/0.0		184.0		2.1		384	Btuh
3	Frame - Wood - Ext						0.09		13.0/0.0		388.0		2.1		809	Btuh
4	Frame - Wood - Ext						0.09		13.0/0.0		224.0		2.1		467	Btuh
	Wall Total										1200 (sqft)				2503 Btuh	
Doors	Type										Area (sqft)		HTM		Load	
1	Insulated - Exterior										6.7		11.2		75	Btuh
2	Insulated - Exterior										20.0		11.2		224	Btuh
3	Insulated - Exterior										20.0		11.2		224	Btuh
	Door Total										47 (sqft)				523 Btuh	
Ceilings	Type/Color/Surface						U-Value		R-Value		Area(sqft)		HTM		Load	
1	Vented Attic/DarkShingle						0.032		30.0/0.0		1568.0		1.66		2597	Btuh
	Ceiling Total										1568 (sqft)				2597 Btuh	
Floors	Type								R-Value		Size		HTM		Load	
1	Slab On Grade								0.0		1568 (ft-perimeter)		0.0		0	Btuh
	Floor Total										1568.0 (sqft)				0 Btuh	
	Envelope Subtotal:														9942 Btuh	
Infiltration	Type						Average ACH		Volume(cuft)		Wall Ratio		CFM=		Load	
	Natural						0.65		12544		1		135.2		2517 Btuh	
Internal gain							Occupants		Btuh/occupant				Appliance		Load	
							4		X 230		+		3400		4320 Btuh	
	Sensible Envelope Load:														16779 Btuh	
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)											(DGM of 0.260)			4354 Btuh	
	Sensible Load All Zones														21134 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Norris
, FL

Project Title:
1210057

Climate:FL_GAINESVILLE_REGIONAL_A

11/6/2012

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	16779 Btuh
	Sensible Duct Load	4354 Btuh
	Total Sensible Zone Loads	21134 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	21134 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4942 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	946 Btuh
	Latent occupant gain (4.0 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	6688 Btuh
	TOTAL GAIN	27822 Btuh

EQUIPMENT

1. Central Unit	#	33000 Btuh
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*Key: Window types (Panels - Number and type of panes of glass)
 (SHGC - Shading coefficient of glass as SHGC numerical value)
 (U - Window U-Factor)
 (InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
 - For Blinds: Assume medium color, half closed
 For Draperies: Assume medium weave, half closed
 For Roller shades: Assume translucent, half closed
 (IS - Insect screen: none(N), Full(F) or Half(½))
 (Ornt - compass orientation)



Version 8