

DATE 05/26/2011

**Columbia County Building Permit**  
This Permit Must Be Prominently Posted on Premises During Construction

**PERMIT**  
**000029434**

APPLICANT SATBIR TALWAR PHONE 904-304-3093  
ADDRESS 506 NW FAT CAT CRT LAKE CITY FL 32055  
OWNER SATBIR TALWAR PHONE 904-304-3093  
ADDRESS 506 NW FAT CAT CRT LAKE CITY FL 32055  
CONTRACTOR OWNER BUILDER PHONE \_\_\_\_\_  
LOCATION OF PROPERTY 90 W, R FAT CAT COUR, APPROX 1/4 MILE ON RIGHT

TYPE DEVELOPMENT SFD ADDITION ESTIMATED COST OF CONSTRUCTION 26250.00  
HEATED FLOOR AREA 525.00 TOTAL AREA 525.00 HEIGHT 8.00 STORIES 1  
FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 4/12 FLOOR FOOTER  
LAND USE & ZONING AG-3 MAX. HEIGHT 35  
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00  
NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO. \_\_\_\_\_

PARCEL ID 29-3S-16-02384-000 SUBDIVISION \_\_\_\_\_  
LOT \_\_\_\_\_ BLOCK \_\_\_\_\_ PHASE \_\_\_\_\_ UNIT \_\_\_\_\_ TOTAL ACRES 8.77

Culvert Permit No. \_\_\_\_\_ Culvert Waiver \_\_\_\_\_ Contractor's License Number \_\_\_\_\_ Applicant/Owner/Contractor Satbir Talwar  
EXISTING 11-0209 BK TC N  
Driveway Connection \_\_\_\_\_ Septic Tank Number \_\_\_\_\_ LU & Zoning checked by \_\_\_\_\_ Approved for Issuance \_\_\_\_\_ New Resident \_\_\_\_\_

COMMENTS: ADDITION APPEARS TO BE LOCATED IN ZONE X AND DOES NOT EXCEED 50%  
OF VALUE OF STRUCTURE

NOC ON FILE \_\_\_\_\_ Check # or Cash CASH

**FOR BUILDING & ZONING DEPARTMENT ONLY**

Temporary Power \_\_\_\_\_ Foundation \_\_\_\_\_ Monolithic \_\_\_\_\_ (footer/Slab)  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Under slab rough-in plumbing \_\_\_\_\_ Slab \_\_\_\_\_ Sheathing/Nailing \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Framing \_\_\_\_\_ Insulation \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Rough-in plumbing above slab and below wood floor \_\_\_\_\_ Electrical rough-in \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Heat & Air Duct \_\_\_\_\_ Peri. beam (Lintel) \_\_\_\_\_ Pool \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Permanent power \_\_\_\_\_ C.O. Final \_\_\_\_\_ Culvert \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Pump pole \_\_\_\_\_ Utility Pole \_\_\_\_\_ M/H tie downs, blocking, electricity and plumbing \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
Reconnection \_\_\_\_\_ RV \_\_\_\_\_ Re-roof \_\_\_\_\_  
date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_

BUILDING PERMIT FEE \$ 135.00 CERTIFICATION FEE \$ 2.63 SURCHARGE FEE \$ 2.63  
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** 215.26

INSPECTORS OFFICE L. H. CLERKS OFFICE CRK

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.**



# 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: IUB4487-Z0115112723



Truss Fabricator: Anderson Truss Company  
Job Identification: 11-075--Fill in later FREEMAN DESIGNS/TALWAR -- , \*\*  
Truss Count: 8  
Model Code: Florida Building Code 2007 and 2009 Supplement  
Truss Criteria: FBC2007Res/TPI-2002(STD)  
Engineering Software: Alpine Software, Version 9.05.  
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 - 110 MPH ASCE 7-05 -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: HCUSR487

William H. Krick  
-Truss Design Engineer-

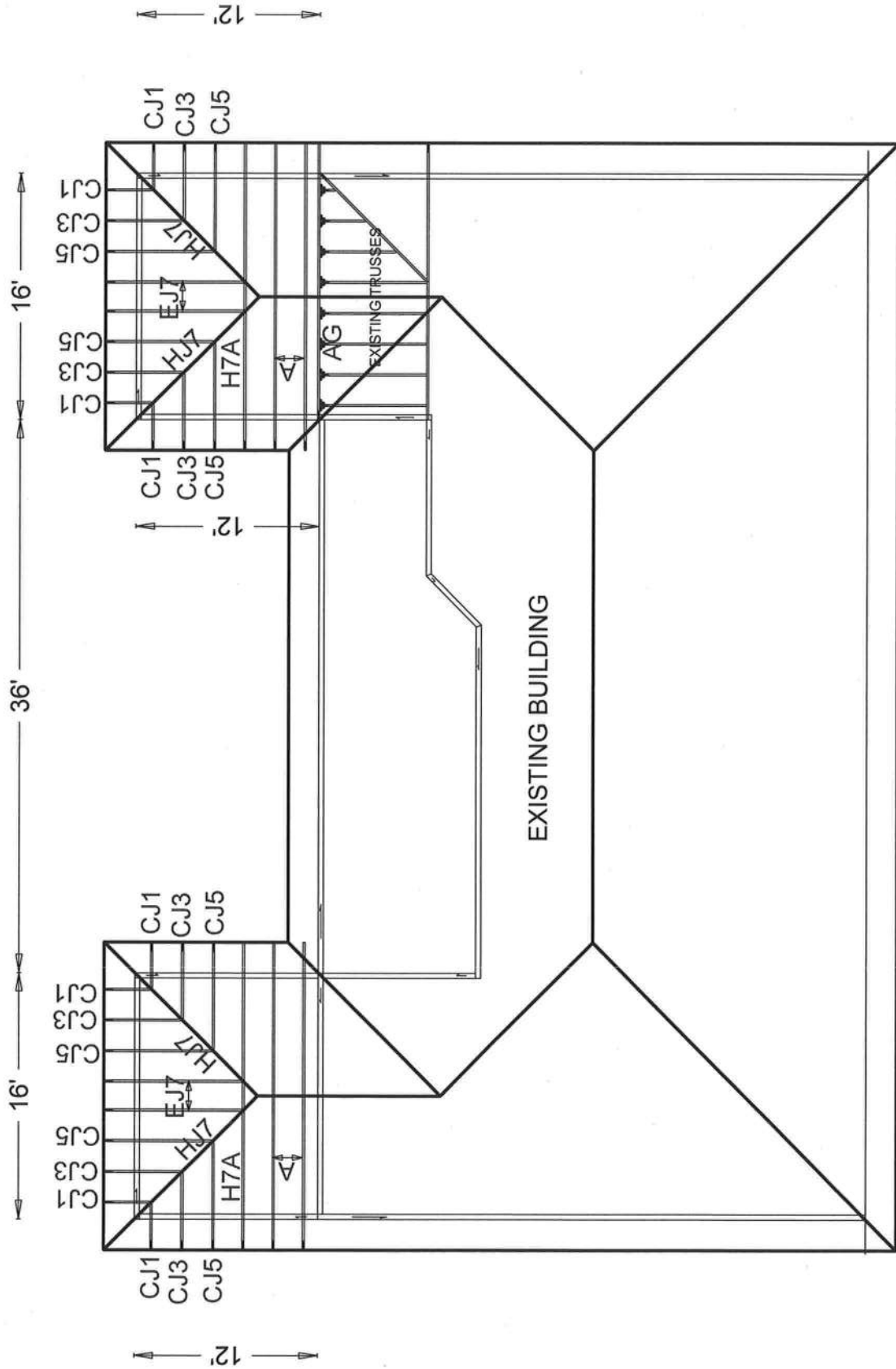
1950 Marley Drive  
Haines City, FL 33844

Details: -

#	Ref	Description	Drawing#	Date
1	34757--A		11105002	04/15/11
2	34758--H7A		11105001	04/15/11
3	34759--AG		11105002	04/15/11
4	34760--EJ7		11105005	04/15/11
5	34761--CJ5		11105001	04/15/11
6	34762--CJ3		11105004	04/15/11
7	34763--CJ1		11105003	04/15/11
8	34764--HJ7		11105006	04/15/11



Addition Roof Plane Sheathing Area = 760 sq. ft



JOB DESCRIPTION: Fill in later  
/ FREEMAN DESIGNS/TALWAR

JOB NO:  
11-075  
PAGE NO:  
1 OF 1

FREEMAN DESIGNS/ TALWAR

( 11-075--Fill) in later FREEMAN DESIGNS/TALWAR -- , \*\* - A )

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

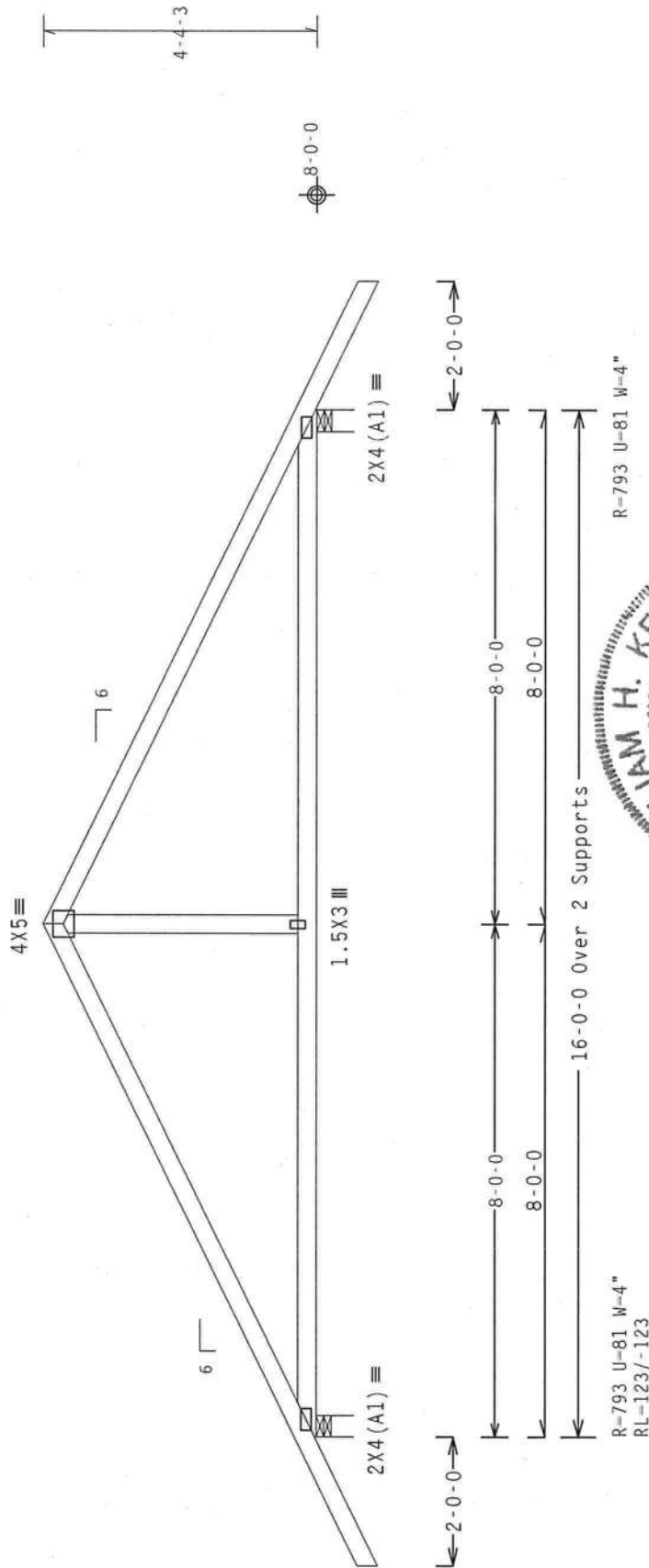
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located  
anywhere in roof, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0  
psf. IW=1.00 GCPI(+/-)-0.18

Roof overhang supports 2.00 psf soffit load.

Wind reactions based on MMFRS pressures.

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

Deflection meets L/240 live and L/180 total load.



R-793 U-81 W-4  
RL-123/-123

R-793 U-81 W-4"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002  
FT/RT=10%(0%) / 0(0%)

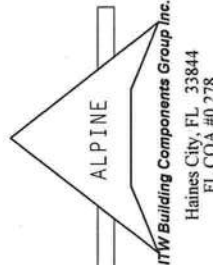
QTY: 4 FL / - / 4 / - / R / -

Scale = .375" / Ft.

\*\*\*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 and follow the latest edition of BCSI Building Component Safety Information, by IPI and BCSI for safety details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A 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 ASCE 7-05, 1.5 Sec.2.2. For more information see: www.bcsinfo.com; IPI: www.ipi.net; BCSI: www.bcsinfo.com; ICC: www.iccsafe.org

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deterioration, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, 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 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 ASCE 7-05, 1.5 Sec.2.2. For more information see: www.bcsinfo.com; IPI: www.ipi.net; BCSI: www.bcsinfo.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF	R487--	34757
TC DL	10.0 PSF	DATE	04/15/11	
BC DL	10.0 PSF	DRW	HCUSR487	11105002
BC LL	0.0 PSF	HC-ENG	KD/AP	*
TOT.LD.	40.0 PSF	SEON-	196879	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UB487_Z01	

(11-075--Fill in later FREEMAN DESIGNS/TALWAR -- , \*\* - H7A)

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

Roof overhang supports 2.00 psf soffit load.

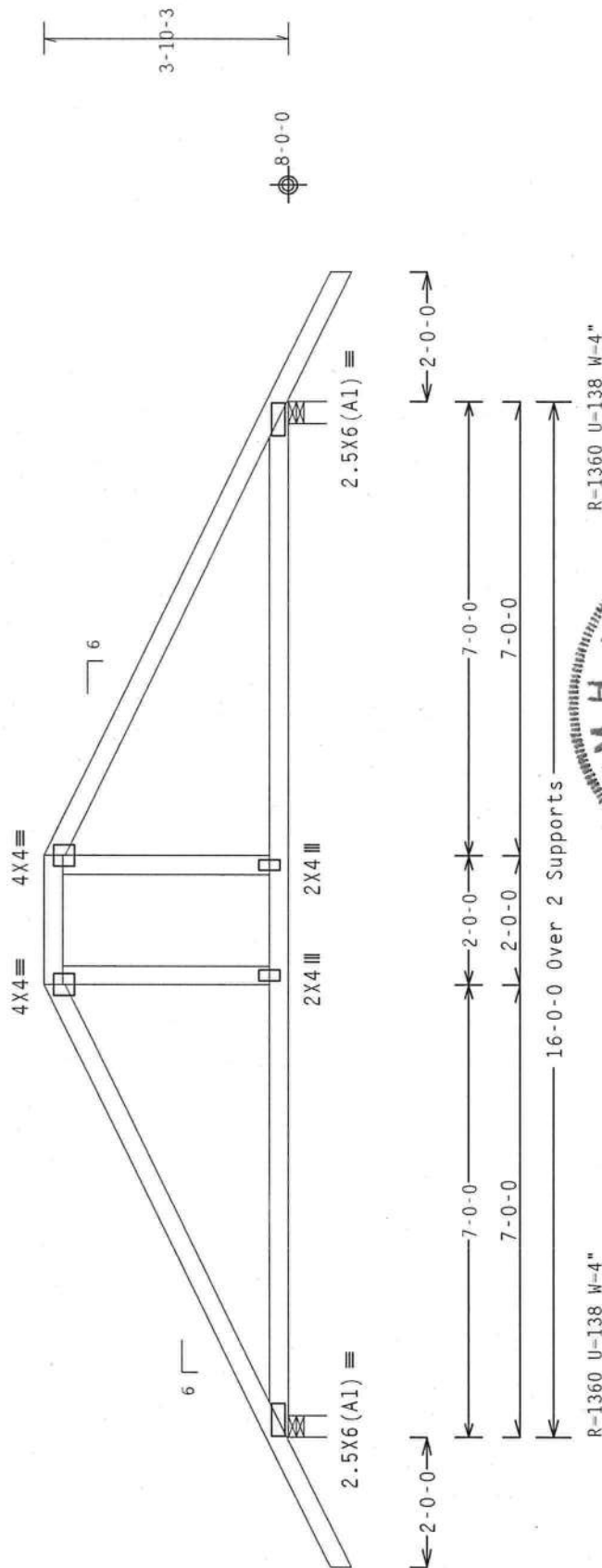
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg. Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

Wind reactions based on MMFRS pressures.

#1 hip supports 7-0-0 jacks with no webs.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002  
FT/RT=10%(0%) / 0(0%)

QTY: 2 FL / - / 4 / - / R / -

Scale = .375" / Ft.

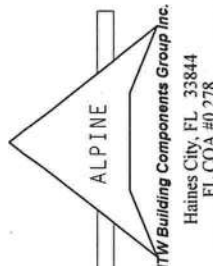
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DATE	04/15/11	
DRW	HCUSR487	11105001
HC - ENG	KD/AP	
SEQN	197610	
DUR.FAC.	1.25	
SPACING	24.0"	
JREF	1UB4487_Z01	

\*\*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 and follow the latest edition of BCSI (Building Component Safety Information, by TPI and BCSI) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have properly attached structural sheathing. All bracing shall be installed in accordance with BCSI sections B3, B7 and B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviations or modifications to this design. 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: general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; NICA: www.nicaindustry.com; IEC: www.iecsafe.org





(11-075--Fill in later FREEMAN DESIGNS/TALWAR -- , \* - AG)

Top chord 2x4 SP #2 Dense  
Bot chord 2x6 SP #2  
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg. Located  
anywhere in roof. CAT II. EXP B. wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
lw=1.00 GCpt1(+/-)-0.18

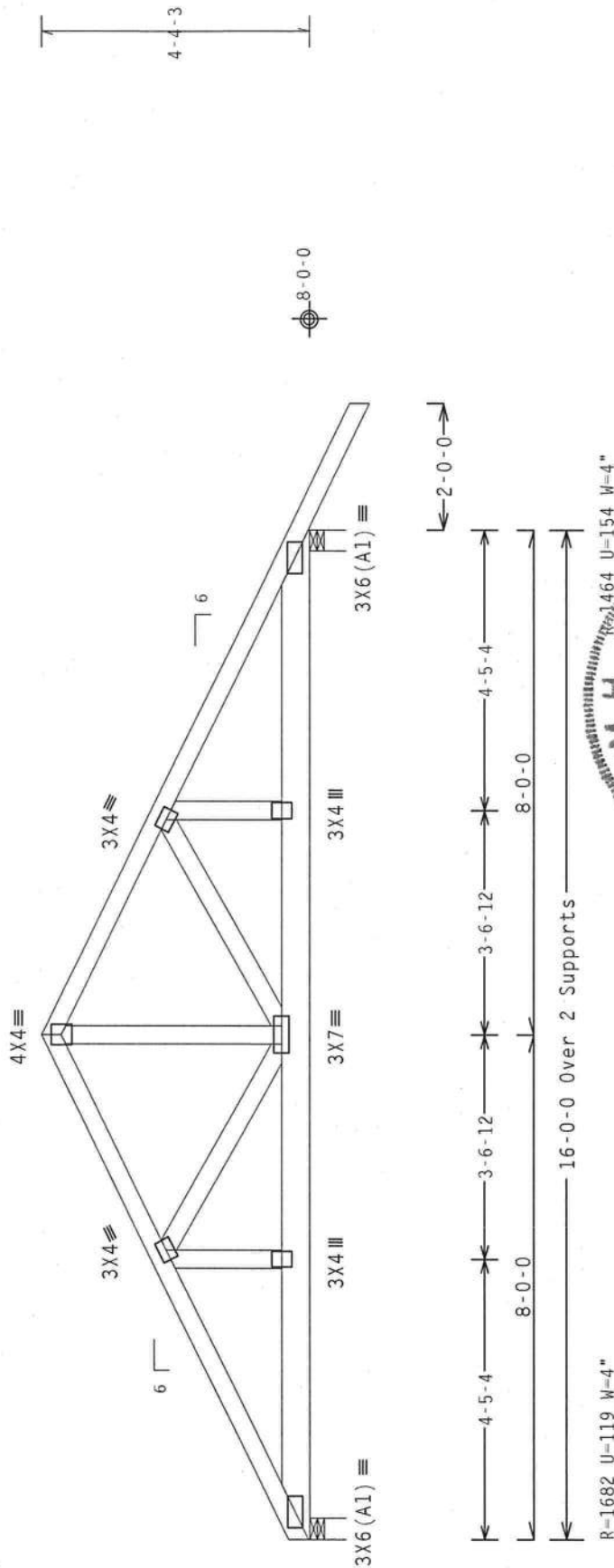
Wind reactions based on MMFRS pressures.

Roof overhang supports 2.00 psf soffit load.

Deflection meets L/240 live and L/180 total load.

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.

Special loads  
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC- From 62 plf at 0.00 to 62 plf at 8.00  
TC- From 62 plf at 8.00 to 62 plf at 18.00  
BC- From 10 plf at 0.00 to 10 plf at 16.00  
BC- From 4 plf at 16.00 to 4 plf at 18.00  
BC- 293.50 lb Conc. Load at 0.94, 2.94, 4.94, 6.94  
8.94  
BC- 211.19 lb Conc. Load at 10.91  
BC- 128.92 lb Conc. Load at 12.91  
BC- 47.07 lb Conc. Load at 14.91



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002  
FT/RT=10%(0%) / 0(0%)

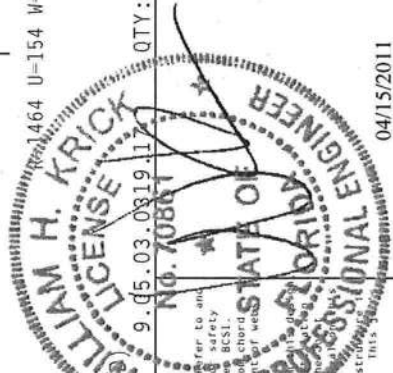
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Scale = .375"/Ft.

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TC DL	10.0 PSF	DATE	04/15/11
BC DL	10.0 PSF	DRW	HCUSR487 11105002
BC LL	0.0 PSF	HC-ENG	KD/AP
TOT.LD.	40.0 PSF	SEON-	197616
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UB4487_Z01

ALPINE

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



\*\*IMPORTANT\*\* 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  
manufacturer's instructions for details. The truss is designed for use in accordance with the  
manufacturer's instructions. The truss is designed for use in accordance with the manufacturer's  
instructions. The truss is designed for use in accordance with the manufacturer's instructions.  
Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord  
shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing or web  
shall have bracing installed per BCS sections 83, 87 or 810, as applicable.  
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the  
design 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  
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  
other than that for which it was designed is the responsibility of the user. This drawing is not  
to be reproduced without the written consent of ITWBCG. For more information see:  
generators@itw.com; 11W-BCG; www.itwbcg.com; TPI: www.tpiinc.org; NCA: www.ncaindustry.org;  
ICC: www.iccsafe.org

04/15/2011

( 11-075--Fill in later. FREEMAN DESIGNS/TALWAR -- , \*\* - EJ7 )

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

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

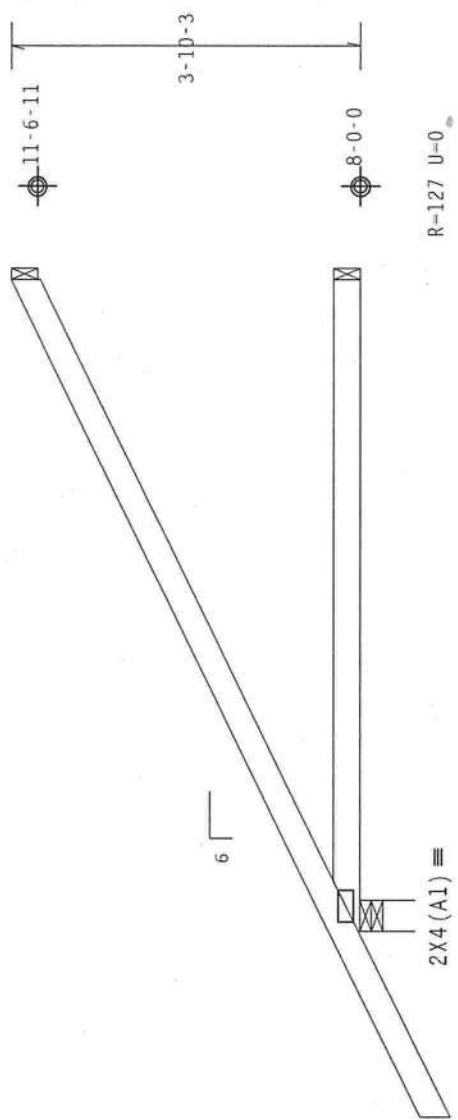
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

Wind reactions based on MMFRS pressures.

Deflection meets L/240 live and L/180 total load.

R-182 U=49



R-127 U=0

2'-0"-0"  
7'-0"-0" Over 3 Supports  
R-450 U=33 W=4"  
RL=104/-44

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002  
FT/RT=10%(0%) / 0(0%)

Scale = .5"/Ft.

QTY: 4

FL/-4/-/R/-

TC LL

TC DL

BC DL

BC LL

TOT.LD.

20.0 PSF

10.0 PSF

10.0 PSF

0.0 PSF

40.0 PSF

1.25

REF R487--

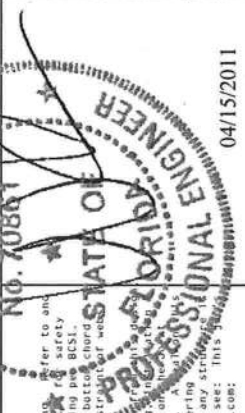
DATE 04/15/11

DRW HCUSR487

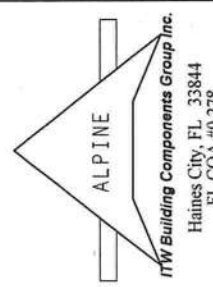
HC-ENG KD/AP

SEQN- 196861

JREF- 1UB487\_Z01



\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET!  
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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and BCSI) for safety practices prior to performing these functions. Installers shall provide temporary bracing and shoring for the trusses until they are properly attached rigid ceiling. Locations shown for permanent lateral bracing 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 destination, handling, or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the back of the drawing, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A complete drawing or cover page listing this drawing, indicates acceptance of professional engineering. The responsibility of the Building Designer per ANSI/TPI 1 Sec.2.2. For more information see: [www.itw-bcg.com](http://www.itw-bcg.com); TPI: [www.tpiinst.org](http://www.tpiinst.org); NCC: [www.nccsafe.org](http://www.nccsafe.org)

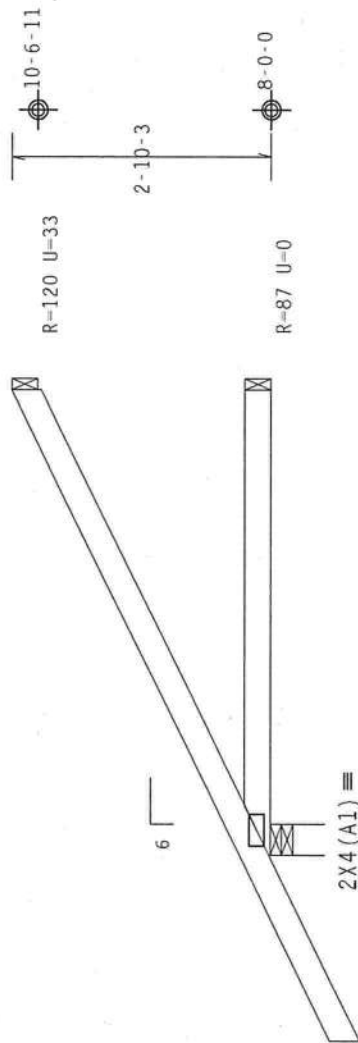


111110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 1, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpf (+/-)=0.18

Wind reactions based on MNFRS pressures.

Deflection meets L/240 live and L/180 total load.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



$\overbrace{\hspace{1.5cm}}^{2-0-0}$ 
 $\overbrace{\hspace{3.5cm}}^{5-0-0}$  Over 3 Supports
   
 $R=377 \quad U=34 \quad W=4"$ 
  
 $RL=80/-39$

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002  
FT/RT=10%(0%)/0(0%)

QTY:8 FL/-/4/-/-/R/-/

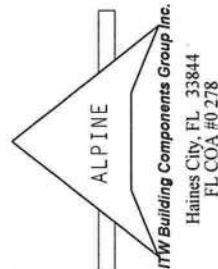
TC LL	20.0 PSF	REF R487 - - 34761
TC DL	10.0 PSF	DATE 04/15/11
BC DL	10.0 PSF	DRW HCUSR487 11105001
BC LL	0.0 PSF	HC-ENG KD/AP
TOT.LD.	40.0 PSF	SEQN- 196864
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1UB4487_Z01

\*\*\*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 an experienced truss designer or building component manufacturer by IPI and/or AIA for safety information pertaining to fabricating, transporting, erecting and bracing these structures. The following comments are intended as general guidelines only. Top chord shall have properly attached structural sheathing and bottom chord members shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing of wall panels shall have bracing installed per BGSI sections B3, B7 or B10, as applicable.

LTR Building Components Group Inc. (LTRBC) shall not be responsible for any deviations from the design or construction details shown on drawings. LTRBC shall not be responsible for any failure to build the Truss in accordance with ANSI/TPI 1 or for handling, shipping, storage, or packing of trusses. Apply plates to each race of truss and position as shown above and on drawing details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Responsibility for design and 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 structural application is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: <http://www.ltrbuilding.com>; [ANSI@ltrbc.net](mailto:ANSI@ltrbc.net); <http://www.truseq.com>; [ANSI@truseq.com](mailto:ANSI@truseq.com); [www.sbcmnusa.org](http://www.sbcmnusa.org)

DATE: 07/28/2009 TIME: 10:56 AM





( 11-075--Fill in later FREEMAN DESIGNS/TALWAR -- . \*\* - CJ3 )

Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

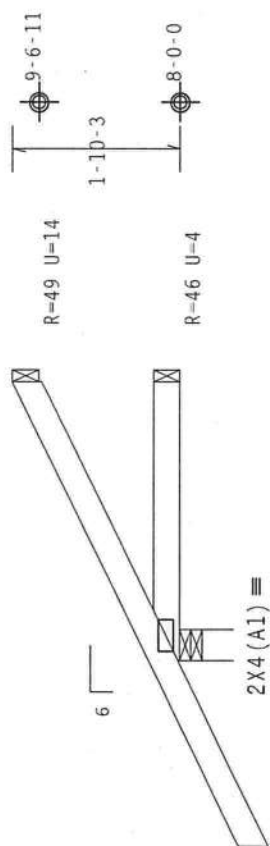
Bottom chord checked for 10.00 psf non-concurrent live load.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg. Located anywhere in roof, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf.  $I_w=1.00$  GCPI(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.



2-0-0  
3-0-0 Over 3 Supports  
R-317 U-37 W-4  
RL-57/-34

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002  
FT/RT=10%(0%)/0(0%)

QTY:8 FL/-4/-/R/- Scale =.5"/Ft.

TC LL	20.0 PSF	REF R487--	34762
TC DL	10.0 PSF	DATE	04/15/11
BC DL	10.0 PSF	DRW	HCUSR487 11105004
BC LL	0.0 PSF	HC-ENG	KD/AP *
TOT.LD.	40.0 PSF	SEQN-	196867
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UB4487_Z01

**WILLIAM H. KRICK**  
LICENSE  
9.05.03.031911  
No. 70867  
PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
04/15/2011

**ALPINE**  
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.  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the manufacturer's instructions for all materials and components used in the truss assembly.  
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 deviations from the design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, bracing or covering of trusses. Apply plates to each face of truss and position as shown above and detail in drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The installation and use of this design for any other purpose is the responsibility of the user. ITWBCG does not warrant the design for any other purpose.  
General notes page: 11N-BG01; www.tbdcg.com; TPI: www.tpinet.org; NICA: www.nicaindustry.com; ICC: www.iccsafe.org

1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi (+/-)=0.18

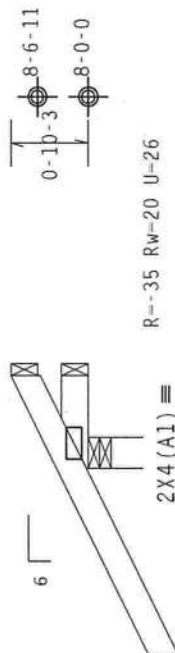
Roof overhang supports 2.00 psf soffit load.

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

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.



R=-110 RW=43 U=75

R--35 RW=20 U=26

R=361 U=81 W=4"  
RL=34/-28

PLT TYP. Wave

Design Crit: EBC2007Res/TPI-2002

FL/-/4/-/-/R/-/-

Scale = .5"/Ft.

**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. Refer to and follow the latest edition of BCSI (Building Component Safety) information, by IPI and follow safety practices for the installation of BCSI products. Trusses shall be installed in accordance with the BCSI installation manual. Trusses shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing. Trusses shall have bracing installed per BCSI sections 83, 87 and 810, as applicable.

[illegible]

ALPINE

**TW Building Components Group Inc.**  
Haines City, FL 33844  
FL COA #0278

04/15/2011

SPACING 24.0"

JREF- 1UB4487 Z01

	Top	chord	2x4	SP	#2	Dense
	Bot	chord	2x4	SP	#2	Dense
		webs	2x4	SP	#3	

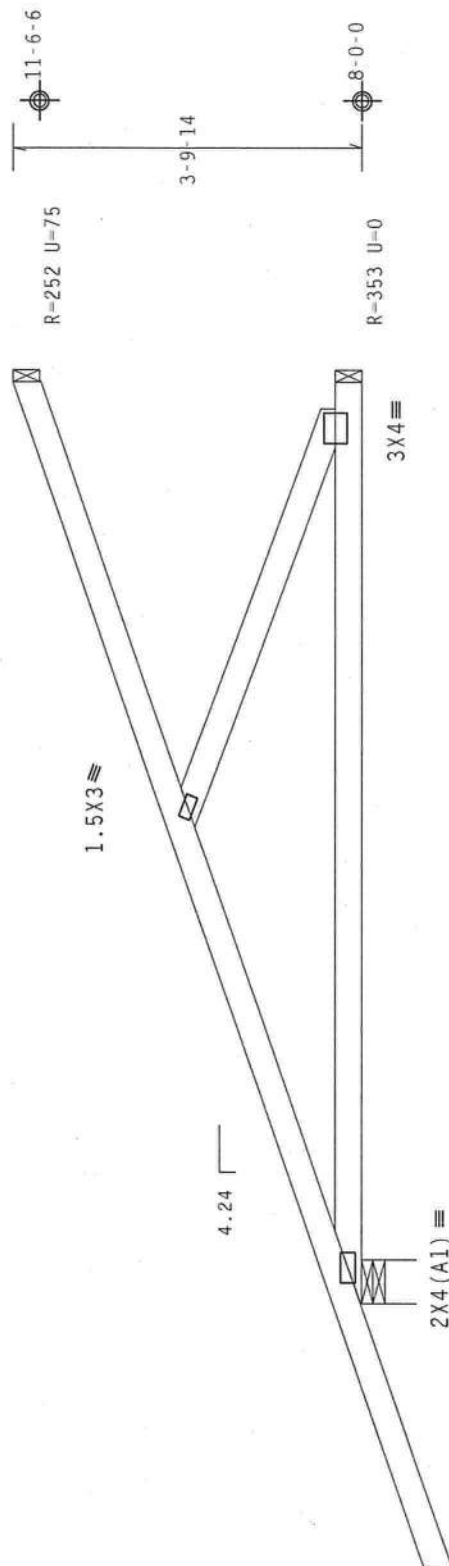
1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp1(+/-)=0.18

Hipjack supports 7-0-0 setback jacks with no webs.

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

Provide ( 2 ) 16d common nails(0.162"x3.5"). toe nailed at Top chord.  
Provide ( 3 ) 16d common nails(0.162"x3.5"). toe nailed at Bot chord.


$$\overleftrightarrow{2-9-15}$$

5

9-4-13

4-6-11

← 9-10-13 Over 3 Supports -

R=540 U=71 W=5.657"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-20024

FT/RT=10%(0%)/0(0%) 9.05.03.0319.17

FL/-/4/-/-/R/-/-

Scale = .5"/Ft.

**\*WARNING\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
FINISH THIS DESIGN O ALL CONTRACTORS INCLUDING INSTALLERS.

Brussos require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by IPI and BCSI) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.

ALPINE

**TW Building Components Group Inc.**  
Haines City, FL 33844  
FL COA #0278

04/15/2011

SPACING 24.0"

REF- 1UB4487 701



**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

Florida Department of Community Affairs Residential Performance Method A

Project Name: Talwar Residence  
 Street: 506 NW Fat Cat Court  
 City, State, Zip: Lake City, FL, 32055-  
 Owner: Satbir Talwar  
 Design Location: FL, Gainesville

Builder Name:  
 Permit Office: COLUMBIA  
 Permit Number:  
 Jurisdiction: 221006

1. New construction or existing	Addition
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	6
5. Is this a worst case?	No
6. Conditioned floor area (ft <sup>2</sup> )	3710
7. Windows	Description Area
a. U-Factor:	Sgl, U=0.55 218.18 ft <sup>2</sup>
SHGC:	SHGC=0.60
b. U-Factor:	Sgl, U=1.30 60.00 ft <sup>2</sup>
SHGC:	SHGC=0.75
c. U-Factor:	N/A ft <sup>2</sup>
SHGC:	
d. U-Factor:	N/A ft <sup>2</sup>
SHGC:	
e. U-Factor:	N/A ft <sup>2</sup>
SHGC:	
8. Floor Types	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 3710.00 ft <sup>2</sup>
b. N/A	R= ft <sup>2</sup>
c. N/A	R= ft <sup>2</sup>

9. Wall Types	Insulation Area
a. Frame - Wood, Exterior	R=13.0 2176.00 ft <sup>2</sup>
b. N/A	R= ft <sup>2</sup>
c. N/A	R= ft <sup>2</sup>
d. N/A	R= ft <sup>2</sup>
10. Ceiling Types	Insulation Area
a. Under Attic (Vented)	R=30.0 3710.00 ft <sup>2</sup>
b. N/A	R= ft <sup>2</sup>
c. N/A	R= ft <sup>2</sup>
11. Ducts -	
a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 742 ft <sup>2</sup>	
12. Cooling systems - Existing/confirmed efficiency	
a. Central Unit	Cap: N/A SEER: 14
13. Heating systems - Existing/confirmed efficiency	
a. Electric Heat Pump	Cap: N/A HSPF: 7.7
14. Hot water systems -	
a. Electric	Cap: 40 gallons EF: 0.92
b. Conservation features	
None	
15. Credits	CV, Pstat

Glass/Floor Area: 0.075

Total As-Built Modified Loads: 38.83

Total Baseline Loads: 50.75

**PASS**

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

PREPARED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

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

OWNER/AGENT: \_\_\_\_\_  
 DATE: \_\_\_\_\_

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 certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with N1110.A.3.



## PROJECT

Title: Talwar Residence	Bedrooms: 6	Address Type: Street Address
Building Type: FLAsBuilt	Conditioned Area: 3710	Lot #
Owner: Satbir Talwar	Total Stories: 1	SubDivision:
# of Units: 1	Worst Case: No	PlatBook:
Builder Name:	Rotate Angle: 0	Street: 506 NW Fat Cat Court
Permit Office:	Cross Ventilation:	County: Columbia
Jurisdiction:	Whole House Fan:	City, State, Zip: Lake City ,
Family Type: Single-family		FI , 32055-
New/Existing: Addition		
Comment:		

## CLIMATE

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

## FLOORS

✓	#	Floor Type	Perimeter	R-Value	Area	Tile	Wood	Carpet
✓	1	Slab-On-Grade Edge Insulatio	292 ft	0	3710 ft²	0.3	0.3	0.4

## ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
✓	1	Hip	Composition shingles	4149 ft²	0 ft²	Medium	0.96	No	0	26.6 deg

## ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
✓	1	Full attic	Vented	300	3710 ft²	N	N

## CEILING

✓	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
✓	1	Under Attic (Vented)	30	3710 ft²	0.11	Wood

## WALLS

✓	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
✓	1	N	Exterior	Frame - Wood	13	584 ft²		0.23	0.75
✓	2	S	Exterior	Frame - Wood	13	424 ft²		0.23	0.75
✓	3	E	Exterior	Frame - Wood	13	584 ft²		0.23	0.75
✓	4	W	Exterior	Frame - Wood	13	584 ft²		0.23	0.75

## DOORS

✓	#	Ornt	Door Type	Storms	U-Value	Area
✓	1	E	Wood	None	0.460000	32.11111
✓	2	W	Wood	None	0.460000	34 ft²
✓	3	W	Wood	None	0.460000	34 ft²

## WINDOWS

Orientation shown is the entered, asBuilt orientation.

✓	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang		Int Shade	Screening
										Depth	Separation		
✓	1	N	Metal	Single (Clear)	Yes	0.55	0.6	N	30 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None
✓	2	N	Metal	Single (Clear)	Yes	0.55	0.6	N	30 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None
✓	3	S	Metal	Single (Clear)	Yes	0.55	0.6	N	30 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None
✓	4	S	Metal	Single (Clear)	Yes	0.55	0.6	N	6 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None
✓	5	E	Metal	Single (Clear)	Yes	0.55	0.6	N	50.18229	1 ft 6 in	1 ft 6 in	HERS 2006	None
✓	6	E	Metal	Single (Clear)	Yes	0.55	0.6	N	36 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None
✓	7	E	Metal	Single (Clear)	Yes	0.55	0.6	N	36 ft²	5 ft 0 in	1 ft 6 in	HERS 2006	None
✓	8	W	Metal	Single (Clear)	Yes	1.3	0.75	N	60 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None

## INFILTRATION & VENTING

✓	Method	SLA	CFM 50	ACH 50	ELA	EqLA	---- Forced Ventilation ----		Run Time	Fan
							Supply CFM	Exhaust CFM	Fraction	Watts
✓	Default	0.00050	4866	9.84	267.1	502.4	0 cfm	0 cfm	0	0

## COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ducts
✓	1	Central Unit	None	SEER: 14	48 kBtu/hr	1440 cfm	0.75	sys#1

## HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Ducts
✓	1	Electric Heat Pump	None	HSPF: 7.7	48 kBtu/hr	sys#1

## HOT WATER SYSTEM

✓	#	System Type	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	0.92	40 gal	90 gal	120 deg	None

## SOLAR HOT WATER SYSTEM

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



## DUCTS

✓	#	--- Supply ---			--- Return ---		Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF
		Location	R-Value	Area	Location	Area						
	1	Attic	6	742 ft²	Attic	185.5 ft	Default Leakage	Interior	(Default)	(Default) %		

## TEMPERATURES

Programable Thermostat: Y						Ceiling Fans:							
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Venting	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Thermostat Schedule: HERS 2006 Reference													
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: 506 NW Fat Cat Court  
Lake City, FL, 32055-

PERMIT #:

### INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & 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; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	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.	
Ceilings	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to 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.	
Recessed 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 with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air 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.AB. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	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.	

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Satbir Talwar  
506 NW Fat Cat Court  
Lake City, FL 32055-

Project Title:  
Talwar Residence  
Building Type: User

4/20/2011

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 37.0 F (MJ8 99%)

### Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM=	Load
1	1, NFRC 0.60	Metal	0.55	N	30.0		20.4	610 Btuh
2	1, NFRC 0.60	Metal	0.55	N	30.0		20.4	610 Btuh
3	1, NFRC 0.60	Metal	0.55	S	30.0		20.4	610 Btuh
4	1, NFRC 0.60	Metal	0.55	S	6.0		20.4	122 Btuh
5	1, NFRC 0.60	Metal	0.55	E	50.2		20.4	1021 Btuh
6	1, NFRC 0.60	Metal	0.55	E	36.0		20.4	733 Btuh
7	1, NFRC 0.60	Metal	0.55	E	36.0		20.4	733 Btuh
8	1, NFRC 0.75	Metal	1.30	W	60.0		48.1	2886 Btuh
Window Total					278.2(sqft)			7326 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	524		3.28	1721 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	388		3.28	1274 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	430		3.28	1411 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	456		3.28	1498 Btuh
Wall Total					1798(sqft)			5904 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Wood - Exterior,	n	(0.460)		32		17.0	547 Btuh
2	Wood - Exterior,	n	(0.460)		34		17.0	579 Btuh
3	Wood - Exterior,	n	(0.460)		34		17.0	579 Btuh
Door Total					100(sqft)			1704Btuh
Ceilings	Type/Color/Surface	Ueff.	R-Value		Area	X	HTM=	Load
1	Vented Attic/L/Shing	(0.032)	30.0/0.0		3710		1.2	4372 Btuh
Ceiling Total					3710(sqft)			4372Btuh
Floors	Type	Ueff.	R-Value		Size	X	HTM=	Load
1	Slab On Grade	(1.180)	0.0		292.0 ft(perim.)		43.7	12749 Btuh
Floor Total					3710 sqft			12749 Btuh
Envelope Subtotal:								32054 Btuh
Infiltration	Type	ACH	Volume(cuft)	Wall Ratio	CFM=			
	Natural	0.50	29680	1.00	247.3			10019 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.199)							8374 Btuh
All Zones	Sensible Subtotal All Zones							50446 Btuh



# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Satbir Talwar  
506 NW Fat Cat Court  
Lake City, FL 32055-

Project Title:  
Talwar Residence  
Building Type: User

4/20/2011

### WHOLE HOUSE TOTALS

<b>Totals for Heating</b>	Subtotal Sensible Heat Loss	50446 Btuh
	Ventilation Sensible Heat Loss	0 Btuh
	Total Heat Loss	50446 Btuh

### EQUIPMENT

1. Electric Heat Pump	RUUD #APPB-048JAZ	48000 Btuh
-----------------------	-------------------	------------

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

Satbir Talwar  
506 NW Fat Cat Court  
Lake City, FL 32055-

Project Title:  
Talwar Residence

4/20/2011

Reference City: Gainesville, FL

Temperature Difference: 17.0F(MJ8 99%)

Humidity difference: 54gr.

### 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	1 NFRC	0.60	0.55	B-L	No	N	1.5ft	1.5ft	30.0	0.0	30.0	16	16	466 Btuh	
2	1 NFRC	0.60	0.55	B-L	No	N	1.5ft	1.5ft	30.0	0.0	30.0	16	16	466 Btuh	
3	1 NFRC	0.60	0.55	B-L	No	S	1.5ft	1.5ft	30.0	30.0	0.0	16	20	466 Btuh	
4	1 NFRC	0.60	0.55	B-L	No	S	1.5ft	1.5ft	6.0	6.0	0.0	16	20	93 Btuh	
5	1 NFRC	0.60	0.55	B-L	No	E	1.5ft	1.5ft	50.2	0.0	50.2	16	49	2451 Btuh	
6	1 NFRC	0.60	0.55	B-L	No	E	1.5ft	1.5ft	36.0	0.0	36.0	16	49	1758 Btuh	
7	1 NFRC	0.60	0.55	B-L	No	E	5.0ft	1.5ft	36.0	15.9	20.1	16	49	1229 Btuh	
8	1 NFRC	0.75	1.30	B-L	No	W	1.5ft	1.5ft	60.0	0.0	60.0	28	59	3515 Btuh	
Window Total									278 (sqft)					10444 Btuh	
Walls	Type					U-Value		R-Value		Area(sqft)		HTM		Load	
								Cav/Sheath							
1	Frame - Wood - Ext					0.09		13.0/0.0		524.0		2.1		1093 Btuh	
2	Frame - Wood - Ext					0.09		13.0/0.0		388.0		2.1		809 Btuh	
3	Frame - Wood - Ext					0.09		13.0/0.0		429.7		2.1		896 Btuh	
4	Frame - Wood - Ext					0.09		13.0/0.0		456.0		2.1		951 Btuh	
Wall Total									1798 (sqft)					3750 Btuh	
Doors	Type									Area (sqft)		HTM		Load	
1	Wood - Exterior									32.1		12.9		414 Btuh	
2	Wood - Exterior									34.0		12.9		438 Btuh	
3	Wood - Exterior									34.0		12.9		438 Btuh	
Door Total									100 (sqft)					1289 Btuh	
Ceilings	Type/Color/Surface					U-Value		R-Value		Area(sqft)		HTM		Load	
1	Vented Attic/Light/Shingle					0.032		30.0/0.0		3710.0		1.34		4962 Btuh	
Ceiling Total									3710 (sqft)					4962 Btuh	
Floors	Type							R-Value		Size		HTM		Load	
1	Slab On Grade							0.0		3710 (ft-perimeter)		0.0		0 Btuh	
Floor Total									3710.0 (sqft)					0 Btuh	
Envelope Subtotal:														20446 Btuh	
Infiltration	Type					ACH		Volume(cuft)		Wall Ratio		CFM=		Load	
	SensibleNatural					0.40		29680		1798		247.3		3683 Btuh	
Internal gain						Occupants		Btuh/occupant				Appliance		Load	
						7		X 230		+		2400		4010 Btuh	
Sensible Envelope Load:														28139 Btuh	
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)										(DGM of 0.320)		8997 Btuh		
	Sensible Load All Zones														37136 Btuh

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Satbir Talwar  
506 NW Fat Cat Court  
Lake City, FL 32055-

Project Title:  
Talwar Residence

Climate: FL\_GAINESVILLE\_REGIONAL\_A

4/20/2011

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>28139 Btuh</b>
	Sensible Duct Load	8997 Btuh
	<b>Total Sensible Zone Loads</b>	<b>37136 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>37136 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	7231 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	2312 Btuh
	Latent occupant gain (7 people @ 200 Btuh per person)	1400 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>10943 Btuh</b>
	<b>TOTAL GAIN</b>	<b>48079 Btuh</b>

### EQUIPMENT

1. Central Unit	RUUD #UHLLA-HM4821JA	48000 Btuh
-----------------	----------------------	------------

\*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



# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX\* = 77

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

506 NW Fat Cat Court, Lake City, FL, 32055-

1. New construction or existing	Addition	9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family	a. Frame - Wood, Exterior	R=13.0	2176.00 ft <sup>2</sup>
3. Number of units, if multiple family	1	b. N/A	R=	ft <sup>2</sup>
4. Number of Bedrooms	6	c. N/A	R=	ft <sup>2</sup>
5. Is this a worst case?	No	d. N/A	R=	ft <sup>2</sup>
6. Conditioned floor area (ft <sup>2</sup> )	3710	10. Ceiling Types	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=30.0	3710.00 ft <sup>2</sup>
a. U-Factor:	Sgl, U=0.55	b. N/A	R=	ft <sup>2</sup>
SHGC:	SHGC=0.60	c. N/A	R=	ft <sup>2</sup>
b. U-Factor:	Sgl, U=1.30	11. Ducts -		
SHGC:	SHGC=0.75	a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 742 ft <sup>2</sup>		
c. U-Factor:	N/A	12. Cooling systems - Existing/confirmed efficiency		
SHGC:		a. Central Unit	Cap: N/A	
d. U-Factor:	N/A		SEER: 14	
SHGC:		13. Heating systems - Existing/confirmed efficiency		
e. U-Factor:	N/A	a. Electric Heat Pump	Cap: N/A	
SHGC:			HSPF: 7.7	
8. Floor Types	Insulation	14. Hot water systems -		
a. Slab-On-Grade Edge Insulation	R=0.0	a. Electric	Cap: 40 gallons	
b. N/A	R=		EF: 0.92	
c. N/A	R=	b. Conservation features		
		None		
		15. Credits		CV, 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: \_\_\_\_\_ Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



\*Note: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at (321) 638-1492 or see the Energy Gauge web site at [energygauge.com](http://energygauge.com) for information and a list of certified Raters. For information about Florida's Energy Efficiency Code for Building Construction, contact the Department of Community Affairs at (850) 487-1824.

\*\*Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

# Residential System Sizing Calculation

## Summary

Satbir Talwar  
506 NW Fat Cat Court  
Lake City, FL 32055-

Project Title:  
Talwar Residence

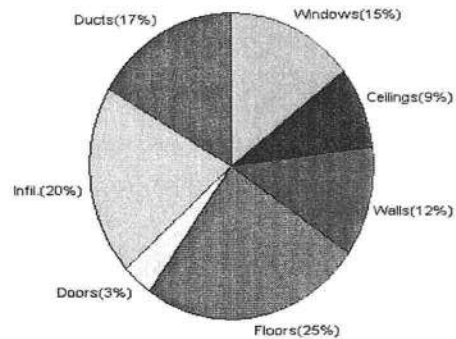
4/20/2011

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
<b>Total heating load calculation</b>		<b>50446 Btuh</b>	<b>Total cooling load calculation</b>
			<b>48079 Btuh</b>
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	95.2 48000	Sensible (SHR = 0.75)	96.9 36000
Heat Pump + Auxiliary(0.0kW)	95.2 48000	Latent	109.7 12000
		Total (Electric Heat Pump)	99.8 48000

## WINTER CALCULATIONS

Winter Heating Load (for 3710 sqft)

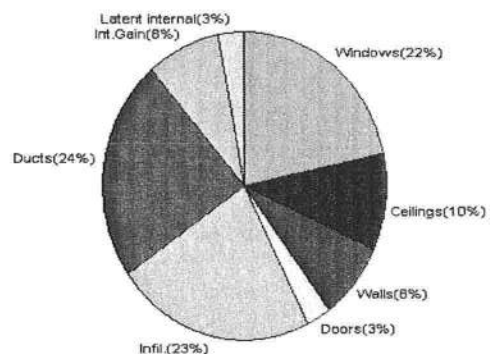
Load component		Load	
Window total	278 sqft	7326	Btuh
Wall total	1798 sqft	5904	Btuh
Door total	100 sqft	1704	Btuh
Ceiling total	3710 sqft	4372	Btuh
Floor total	3710 sqft	12749	Btuh
Infiltration	247 cfm	10019	Btuh
Duct loss		8374	Btuh
<b>Subtotal</b>		<b>50446</b>	<b>Btuh</b>
Ventilation	0 cfm	0	Btuh
<b>TOTAL HEAT LOSS</b>		<b>50446</b>	<b>Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 3710 sqft)

Load component		Load	
Window total	278 sqft	10444	Btuh
Wall total	1798 sqft	3750	Btuh
Door total	100 sqft	1289	Btuh
Ceiling total	3710 sqft	4962	Btuh
Floor total		0	Btuh
Infiltration	198 cfm	3683	Btuh
Internal gain		4010	Btuh
Duct gain		8997	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Blower Load		0	Btuh
<b>Total sensible gain</b>		<b>37136</b>	<b>Btuh</b>
Latent gain(ducts)		2312	Btuh
Latent gain(infiltration)		7231	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1400	Btuh
<b>Total latent gain</b>		<b>10943</b>	<b>Btuh</b>
<b>TOTAL HEAT GAIN</b>		<b>48079</b>	<b>Btuh</b>



8th Edition

EnergyGauge® System Sizing

PREPARED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

# PRODUCT APPROVAL SPECIFICATION SHEET

Location: 506 NW Fat Cat Court Project Name: Talwar Addition

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at [www.floridabuilding.org](http://www.floridabuilding.org)

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>A. EXTERIOR DOORS</b>			
1. Swinging	Therma-Tru	Insulated door	8838.1
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
<b>B. WINDOWS</b>			
1. Single hung	PGT Ind.	SH 600	239.5
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
<b>C. PANEL WALL</b>			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
<b>D. ROOFING PRODUCTS</b>			
1. Asphalt Shingles			
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			



Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
<b>E. SHUTTERS</b>			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
<b>F. SKYLIGHTS</b>			
1. Skylight			
2. Other			
<b>G. STRUCTURAL COMPONENTS</b>			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
<b>H. NEW EXTERIOR ENVELOPE PRODUCTS</b>			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection.

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Contractor or Contractor's Authorized Agent Signature

Print Name

Date

Location



**Columbia County Building Permit Application**

<b>For Office Use Only</b>		Application # <u>1105-14</u>	Date Received <u>5/6</u>	By <u>JW</u>	Permit # <u>29434</u>
Zoning Official <u>BZR</u>	Date <u>2.05.11</u>	Flood Zone <u>AandX</u>	Land Use <u>A-3</u>	Zoning <u>A-3</u>	
FEMA Map # <u>N/A</u>	Elevation <u>N/A</u>	MFE <u>N/A</u>	River <u>N/A</u>	Plans Examiner <u>JG</u>	Date <u>5-11-11</u>
Comments <u>Addition appears to be located in Zone X Does not exceed 50% of Value of Structure</u>					
<input checked="" type="checkbox"/> NOC <input checked="" type="checkbox"/> EH <input type="checkbox"/> Deed or PA <input type="checkbox"/> Site Plan <input type="checkbox"/> State Road Info <input type="checkbox"/> Well letter <input checked="" type="checkbox"/> 911 Sheet <input type="checkbox"/> Parent Parcel # _____					
<input type="checkbox"/> Dev Permit # _____ <input type="checkbox"/> In Floodway <input checked="" type="checkbox"/> Letter of Auth. from Contractor <input type="checkbox"/> F W Comp. letter					
IMPACT FEES: EMS _____		Fire _____	Corr _____	<input checked="" type="checkbox"/> Sub VF Form	
Road/Code _____		School <u>Addition to Existing dwelling</u>	TOTAL (Suspended) _____		<input checked="" type="checkbox"/> App Fee Paid

Septic Permit No. -11-0209-\* RELEASED - /ready\* Fax \_\_\_\_\_

Name Authorized Person Signing Permit Satbir Talwar Phone 904-304-3093

Address 506 NW Fat Cat Court Lake City, FL

Owners Name Satbir Talwar Phone 904-304-3093

911 Address 506 NW Fat Cat Court Lake City, FL 32055

Contractors Name N/A Phone \_\_\_\_\_

Address \_\_\_\_\_

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address William H. Freeman 128 SW Nassau St Lake City, FL

Mortgage Lenders Name & Address N/A

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

Property ID Number 29-38-16-02384-000 Estimated Cost of Construction 5000.

Subdivision Name \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_

Driving Directions W on US 90 approximately 7 miles; turn Right onto Fat Cat Court, approx 1/4 on the R.

Number of Existing Dwellings on Property 1

Construction of 525 sq ft Addition Total Acreage 8.770 Lot Size \_\_\_\_\_

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 8'

Actual Distance of Structure from Property Lines - Front 69' Side 150' Side 116' Rear 72'

Number of Stories 1 Heated Floor Area 525 Total Floor Area 525 Roof Pitch 4/12

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. Page 1 of 2 (Both Pages must be submitted together.) Revised 1-11

"JW" spoke w/ Wm Freeman 5.14.11 re: "VF" needed



**Columbia County Building Permit Application**

**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 COMMENCEMENT 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.)

  
\_\_\_\_\_  
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.

\_\_\_\_\_  
Contractor's Signature (Permitee)

Contractor's License Number \_\_\_\_\_  
Columbia County  
Competency Card Number \_\_\_\_\_

Affirmed under penalty of perjury to by the Contractor and subscribed before me this \_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.  
Personally known \_\_\_\_\_ or Produced Identification \_\_\_\_\_

**SEAL:**

\_\_\_\_\_  
State of Florida Notary Signature (For the Contractor)



**SUBCONTRACTOR VERIFICATION FORM**

APPLICATION NUMBER \_\_\_\_\_ CONTRACTOR \_\_\_\_\_ PHONE \_\_\_\_\_

**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.*

ok ELECTRICAL	Print Name: <u>Donald R. Hollingsworth</u> License #: <u>13012377 EK</u>	Signature: <u>[Signature]</u> Phone #: <u>386-253-5944</u>
* MECHANICAL/ A/C	Print Name: <u>Satbir Talwar</u> License #:	Signature: <u>Satbir Talwar</u> Phone #: <u>904-304-3092</u>
ok PLUMBING/ GAS 715	Print Name: <u>Cozy Bowers</u> License #: <u>CFC427145</u>	Signature: <u>[Signature]</u> Phone #: <u>386 623-0509</u>
ROOFING	Print Name: _____ License #: _____	Signature: _____ Phone #: _____
SHEET METAL	Print Name: _____ License #: _____	Signature: _____ Phone #: _____
FIRE SYSTEM/ SPRINKLER	Print Name: _____ License #: _____	Signature: _____ Phone #: _____
SOLAR	Print Name: _____ License #: _____	Signature: _____ Phone #: _____

	Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
* X	MASON		<u>Satbir Talwar</u>	<u>Satbir Talwar</u>
X	CONCRETE FINISHER			
X	FRAMING			
X	INSULATION			
X	STUCCO			
X	DRYWALL			
X	PLASTER			
* X	CABINET INSTALLER			
X	PAINTING			
	ACOUSTICAL CEILING		<u>Satbir Talwar</u>	<u>Satbir Talwar</u>
	GLASS			
	CERAMIC TILE			
	FLOOR COVERING			
	ALUM/VINYL SIDING			
	GARAGE DOOR			
	METAL BLDG ERECTOR			

**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.



## **COLUMBIA COUNTY BUILDING DEPARTMENT**

135 NE Hernando Ave., Suite B-21

Lake City, FL 32055

Office: 386-758-1008 Fax: 386-758-2160

### **OWNER BUILDER DISCLOSURE STATEMENT**

I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.

I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.

I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed and bonded in Florida and to list his or her license numbers on permits and contracts.

I understand that I may build or improve a one-family or two-family residence or farm outbuilding. I may also build or improve a commercial building if the costs do not exceed \$75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased within 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.

I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.

I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.

I understand that it is frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.



I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.

I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at 850-487-1395 or Internet website address <http://www.myflorida.com/dbpr/pro/cilb/index.html> for more information about licensed contractors.

I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

506 NW Fat Cat Court

I agree to notify Columbia County Building Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual or firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

I understand that if I hire subcontractors they must be licensed for that type of work in Columbia County, ex: framing, stucco, masonry, and state registered builders. Registered Contractors must have a minimum of \$300,000.00 in General Liability insurance coverage and the proper workers' compensation. Specialty Contractors must have a minimum of \$100,000.00 in General Liability insurance coverage and the proper workers' compensation coverage.

Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner and returned to Columbia County Building Department.

#### TYPE OF CONSTRUCTION

- ( ) Single Family Dwelling      ( ) Two-Family Residence      ( ) Farm Outbuilding  
(☒) Addition, Alteration, Modification or other Improvement  
( ) Commercial, Cost of Construction \_\_\_\_\_ Construction of \_\_\_\_\_  
( ) Other \_\_\_\_\_

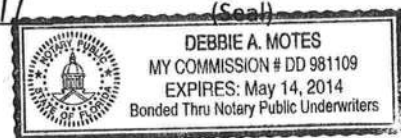
I, Satbir Talwar, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes allowing this exception for the construction permitted by Columbia County Building Permit.

Satbir G. Talwar      04/13/2011  
Owner Builder Signature      Date

#### NOTARY OF OWNER BUILDER SIGNATURE

The above signer is personally known to me or produced identification drivers license

Notary Signature Debbie A. Notes      Date 4-13-11



#### FOR BUILDING DEPARTMENT USE ONLY

I hereby certify that the above listed owner builder has been given notice of the restriction stated above.

Building Official/Representative

Javier L. L...

Prepared by and return to:

Janet Toro  
Kahane & Associates, P.A.  
8201 Peters Road, Suite 3000  
Plantation, FL 33324

File Number: 09-08692

Loan Number: [REDACTED]

Consideration: \$110,000.00

Inst 201012020228 Date: 12/20/2010 Time: 12:27 PM

Doc Stamp-Deed 770.00

DC, P DeWitt Casan, Columbia County Page 1 of 3 B 1206 P 2108

(space above this line for recording data)

## Special Warranty Deed

This Special Warranty Deed made this 10 day of December, 2010, between Deutsche Bank National Trust Company, as Trustee of the IndyMac INDX Mortgage Loan Trust 2007-AR1, Mortgage Pass-Through Certificates Series 2007-AR1 under the Pooling and Servicing Agreement dated June 1, 2007 whose post office address is 460 Sierra Madre Villa Avenue, Suite 101, Pasadena, CA 91107, grantor, and Sathir Talwar and Simarpreet Talwar, husband and wife whose post office address is 506 NW Fat Cat Court, Lake City, FL 32055, grantee:

(Whenever used herein the terms grantor and grantee include all the parties to this instrument and the heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

Witnesseth, that said grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

**SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF.**

**Parcel Identification Number: 29-3S-16-02384-000**

**Together** with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

**To Have and to Hold**, the same in fee simple forever.

**And** the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons claiming by, through or under grantors.

**In Witness Whereof**, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Witness Name:

Josie Salazar

Witness Name:

Meredith Crower

Deutsche Bank National Trust Company, as Trustee of the IndyMac INDX Mortgage Loan Trust 2007-AR1, Mortgage Pass-Through Certificates Series 2007-AR1 under the Pooling and Servicing Agreement dated June 1, 2007, by OneWest Bank, FSB, Attorney in Fact

By:

Louise Chavez  
AVP

State of: Texas  
County of: Travis

The foregoing instrument was acknowledged before me this 10 day of December, 2010, by

Louise Chavez  
AVP

\_\_\_\_\_ of OneWest Bank, FSB, Attorney in Fact for Deutsche Bank National Trust Company, as Trustee of the IndyMac INDX Mortgage Loan Trust 2007-AR1, Mortgage Pass-Through Certificates Series 2007-AR1 under the Pooling and Servicing Agreement dated June 1, 2007, who ( ☒ ) is personally known to me or ( ) has produced \_\_\_\_\_ as identification.



Notary Public

Printed Name: \_\_\_\_\_

My Commission Expires: \_\_\_\_\_



## EXHIBIT "A"

The NE 1/4 of the NW 1/4 of the SW 1/4 of Section 29, Township 3 South Range 16 East, Columbia County, Florida.

Also: A part of the SW 1/4 of Section 29, Township 3 South, Range 16 East, Columbia County, Florida, more particularly described as follows: Commence at the Northwest corner of said SW 1/4 and run N.89°54'21" E., along the North line thereof, 648.74 feet; thence S.01°03'26" W., 76.78 feet for a point of beginning; thence N.89°39'24" E., 37.75 feet; thence S.00°36'19" W., 599.78 feet; thence S.89°45'17" W., 38.99 feet; thence N.01°03'26" E., 599.74 feet to the point of beginning.

Less and except: A part of the SW 1/4 of Section 29, Township 3 South, Range 16 East, Columbia County, Florida, more particularly described as follows: Commence at the Northwest corner of said SW 1/4 and run N. 89°54'21" E., along the North line thereof, 648.74 feet for a point of beginning; thence continue N.89°54'21" E., along said North line, 723.90 feet to the Northeast corner of the NW 1/4 of the SW 1/4 thence S. 00°56'11" W., along the East line thereof, 73.63 feet; thence S.89°39'24" W., 724.13 feet; thence N.01°03'26" E., 76.68 feet to the point of beginning.

And less and except: A part of the SW 1/4 of Section 29, Township 3 South, Range 16 East, Columbia County, Florida being more particularly described as follows: Commence at the Northwest corner of said SW 1/4 and run N.89°54'21" E., along the North line thereof, 648.74 feet; thence S.01°03'26" W., 321.10 feet for a point of beginning; thence N.89°44'57" E., 85.00 feet; thence S.01°03'26" W., 261.43 feet; thence S. 89°44'57" W., 85.00 feet; thence N.01°03'26" E., 261.43 feet; to the point of beginning.

Together with an: Easement in the SW 1/4 of Section 29, Township 3 South, Range 16 East, Columbia County, Florida, more particularly described as follows:  
Commence at the Southwest corner of said SW 1/4 and N.00°56'27" E., along the West line thereof, 503.24 feet to a point on the South right-of-way line of U.S. Highway No. 90; thence N.72°27' 12" E., 316.14 feet to the point on the North right-of-way line of U.S. Highway No. 90 and the point of beginning; thence N.00°56'27" E., 361.20 feet to the point of curve of a curve to the left, having a radius of 1000.00 feet and an included angle of 12°11'56"; thence Northwesterly along the arc of said curve, an arc distance of 212.91 feet; thence N.11°15'29" W., 12.14 feet; thence N.32°46'14" E., 1016.77 feet; thence N.89°45'17" E., 35.79 feet; thence S.32°46'14" W., 1024.15 feet to a point on a curve to the right, having a radius of 1030.00 feet and an included angle of 12°11'56"; thence Southeasterly along the arc of said curve, an arc distance of 219.30 feet; thence S.00°56'27" W., 360.48 feet to a point on said North right-of-way line of U.S. Highway No. 90; thence S.89°33'54" W., along said North right-of-way line, 30.01 feet to the point of beginning.

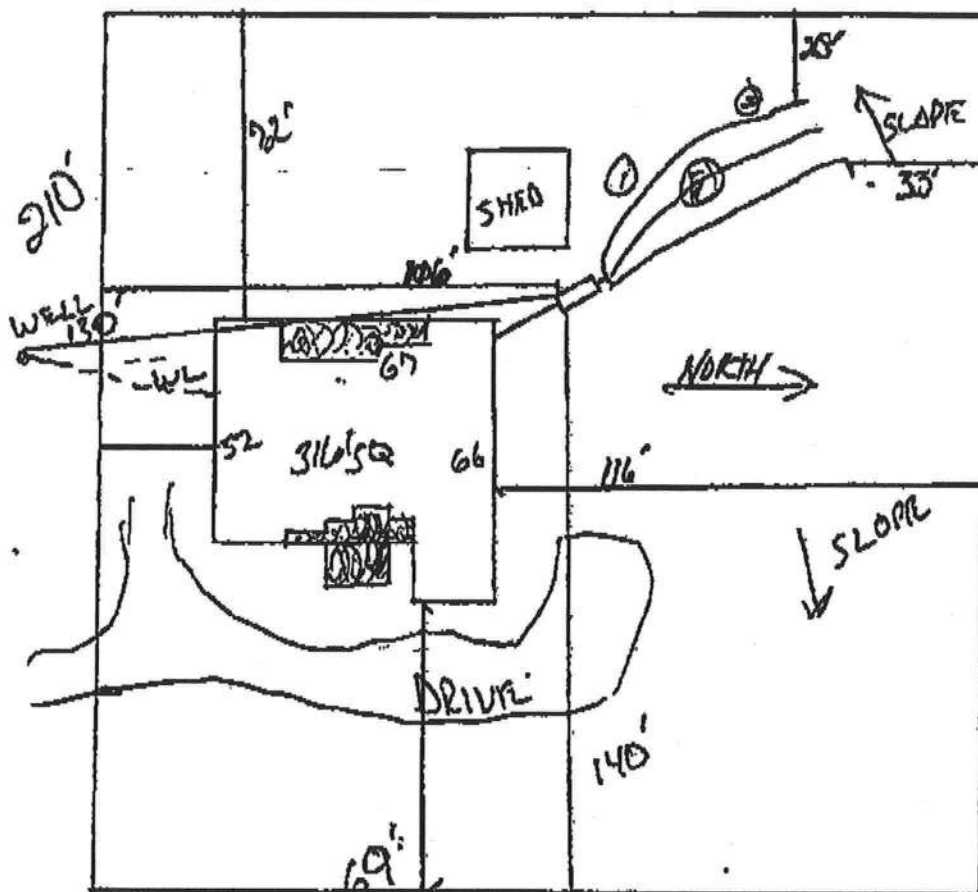
STATE OF FLORIDA  
DEPARTMENT OF HEALTH  
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 11-0009E

TABULAR PART II - SITEPLAN

Scale: 1 inch = 40 feet.

SEE  
ATTACHED



Notes:

1 of 8.77 Acres

Site Plan submitted by: Rocky D. Z...

Plan Approved

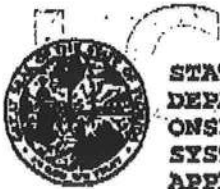
Not Approved

MASTER CONTRACTOR

Date: 5/16/11

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

11-01095  
PERMIT NO. 1003413  
DATE PAID: 4/25/11  
FEE PAID: 158.00  
RECEIPT #: 15910726

APPLICATION FOR:

[ ] New System [X] Existing System [ ] Holding Tank [ ] Innovative  
[ ] Repair [ ] Abandonment [ ] Temporary [ ]

APPLICANT: Satbir Talwar

AGENT:

TELEPHONE: 904-304-3093

MAILING ADDRESS: 506 NW Fat Cat Court

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: \_\_\_\_\_ BLOCK: \_\_\_\_\_ SUBDIVISION: \_\_\_\_\_ PLATTED: \_\_\_\_\_

PROPERTY ID #: 29-38-16-02384-004 ZONING: \_\_\_\_\_ X/M OR EQUIVALENT: [ Y / N ]

PROPERTY SIZE: 8.770 ACRES WATER SUPPLY: [ ] PRIVATE PUBLIC [ ] <=2000GPD [ ] >2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y / N ] DISTANCE TO SEWER: \_\_\_\_\_ FT

PROPERTY ADDRESS: 506 NW Fat Cat Court

DIRECTIONS TO PROPERTY: 7 miles W on US 90 - Right on Fat Cat Court

BUILDING INFORMATION

[X] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-5, FAC
---------	-----------------------	-----------------	--------------------	--

1	<u>Residence</u>	<u>5</u>	<u>3827</u>	<u>ORIGINAL ATTACHED</u>
2				
3				
4				

[ ] Floor/Equipment Drains [ ] Other (Specify) \_\_\_\_\_

SIGNATURE: Satbir Singh Talwar

DATE: 4-25-11

# NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

29-35-16-02384-000

Clerk's Office Stamp

Inst 201112006228 Date: 4/26/2011 Time: 2:17 PM  
DC, P. DeWitt Cason, Columbia County Page 1 of 1 B:1213 P:1733

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): Part of Sect. 29 T3S, R16E  
a) Street (job) Address: 506 NW Fat Cat Court; Lake City, FL
2. General description of improvements: \_\_\_\_\_
3. Owner Information  
a) Name and address: Satbir Talwar 506 NW Fat Cat Court; Lake City, FL  
b) Name and address of fee simple titleholder (if other than owner) \_\_\_\_\_  
c) Interest in property \_\_\_\_\_
4. Contractor Information  
a) Name and address: Same as owner  
b) Telephone No.: \_\_\_\_\_ Fax No. (Opt.) \_\_\_\_\_
5. Surety Information  
a) Name and address: N/A  
b) Amount of Bond: \_\_\_\_\_  
c) Telephone No.: \_\_\_\_\_ Fax No. (Opt.) \_\_\_\_\_
6. Lender  
a) Name and address: N/A  
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.

Satbir Singh Talwar  
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

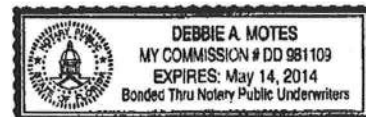
Satbir Talwar  
Printed Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 13<sup>th</sup> day of April, 2011, by:

\_\_\_\_\_ as \_\_\_\_\_ (type of authority, e.g. officer, trustee, attorney  
fact) for Satbir Talwar (name of party on behalf of whom instrument was executed).

Personally Known \_\_\_\_\_ OR Produced Identification ☒ Type drivers license

Notary Signature Debbie A. Motes Notary Stamp or Seal:



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.

Satbir Singh Talwar  
Signature of Natural Person Signing (in line #10 above.)



# Columbia County Property Appraiser

DB Last Updated: 5/3/2011

**2010 Tax Year**

Parcel: 29-3S-16-02384-000

&lt;&lt; Next Lower Parcel Next Higher Parcel &gt;&gt;

Tax Collector

Tax Estimator

Property Card

Parcel List Generator

Interactive GIS Map

Print

Search Result: 1 of 1

## Owner & Property Info

Owner's Name	TALWAR SATBIR & SIMARPREET		
Mailing Address	506 NW FAT CAT COURT LAKE CITY, FL 32055		
Site Address	506 NW FAT CAT CT		
Use Desc. (code)	SINGLE FAM (000100)		
Tax District	3 (County)	Neighborhood	29316
Land Area	8.770 ACRES	Market Area	01
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		
NE1/4 OF NW1/4 OF SW1/4, EX 1.25 AC OFF N SIDE & BEG SW COR OF NE1/4 OF NW1/4 OF SW1/4 RUN W 38.99 FT, N 599.74 FT, E 37.75 FT, S 599.78 FT TO POB DESC ORB 782-2060 & 808-128, CT 1004-33, WD 1022-2111 EX 0.51 AC DESC ORB 1031-996 (WATER RIGHTS DEED ORB 1188- 358), CT 1194-1897			



## Property & Assessment Values

2010 Certified Values		
<b>Mkt Land Value</b>	cnt: (0)	\$45,509.00
<b>Ag Land Value</b>	cnt: (2)	\$0.00
<b>Building Value</b>	cnt: (1)	\$230,193.00
<b>XFOB Value</b>	cnt: (6)	\$21,270.00
<b>Total Appraised Value</b>		\$296,972.00
<b>Just Value</b>		\$296,972.00
<b>Class Value</b>		\$0.00
<b>Assessed Value</b>		\$296,972.00
<b>Exempt Value</b>	(code: HX)	\$50,000.00
<b>Total Taxable Value</b>	Cnty: \$246,972	Schl: \$271,972
	Other: \$246,972	

## 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
12/10/2010	1206/2108	WD	I	U	12	\$110,000.00
5/5/2010	1194/1897	CT	I	U	11	\$100.00
7/23/2004	1022/2111	WD	I	Q		\$360,000.00
12/17/2003	1004/33	CT	I	U	03	\$100.00
7/14/1995	808/128	WD	I	U	12	\$58,000.00
11/22/1993	782/2060	WD	V	U	34	\$0.00
1/1/1982	482/196	WD	I	Q		\$50,000.00

## Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
3	SINGLE FAM (000100)	1997	WD FR STUC (16)	3161	3673	\$98,108.00
Note: All S.F. calculations are based on exterior building dimensions.						

## Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0210	GARAGE U	0	\$10,080.00	0000504.000	21 x 24 x 0	(000.00)





1105-14