ck# 3499 dc 3500

Columbia County Building Permit Application

(W) Revised 9-23-04

For Office Use Only Application # 0602-99 Date Received 2/28/06 By GT Permit # 1025 / 24296

Application Approved by - Zoning Official BLK Date 03.03.06 Plans Examiner OK JTH Date 3-23-06

Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments NOC on file

Applicants Name RONALD R & MARCIA A OLSZAK Phone 386 454-8450

Address P.O. BOX 2277 HIGH SPRINGS, FL 32655

Owners Name RONALD R & MARCIA A. OLSZAK Phone 386 454-8450

911 Address 200 SW BAY PL ft. White fl 32038

Contractors Name OWNER/BUILDER Phone ABOVE

Address ABOVE

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address RIVERA DESIGN GROUP, 1217 NW 16th AVE, GAINESVILLE FL 3261

Mortgage Lenders Name & Address N/A

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

Property ID Number 30-7S-17-10058-594 Estimated Cost of Construction $160K

Subdivision Name SANTE FE RIVER PLANTATION Lot 4 Block ____ Unit ____ Phase ____

Driving Directions FROM HIGH SPRINGS TAKE 27 N TO CR 138, TURN LEFT ON CR138 TO 1ST ST. ON LEFT, HEFLIN AVE. GO TO 1ST ST ON RT. SW BAY PL TURN RT ON BAY TO 4th LOT ON LEFT.

Type of Construction SINGLE FAMILY Number of Existing Dwellings on Property 0

Total Acreage 2.24 Lot Size 180.9 x 541.47' Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 185'8" ✓ Side 51' ✓ Side 74' ✓ Rear 182' ✓

Total Building Height 22' Number of Stories 1 Heated Floor Area 2087 Roof Pitch 7/12

Total 3273

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.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

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

Marcia A. Olszak
Ronald R. Olszak
Owner Builder or Agent (Including Contractor)

Contractor Signature
Contractors License Number
Competency Card Number
NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF ~~COLUMBIA~~ Alachua

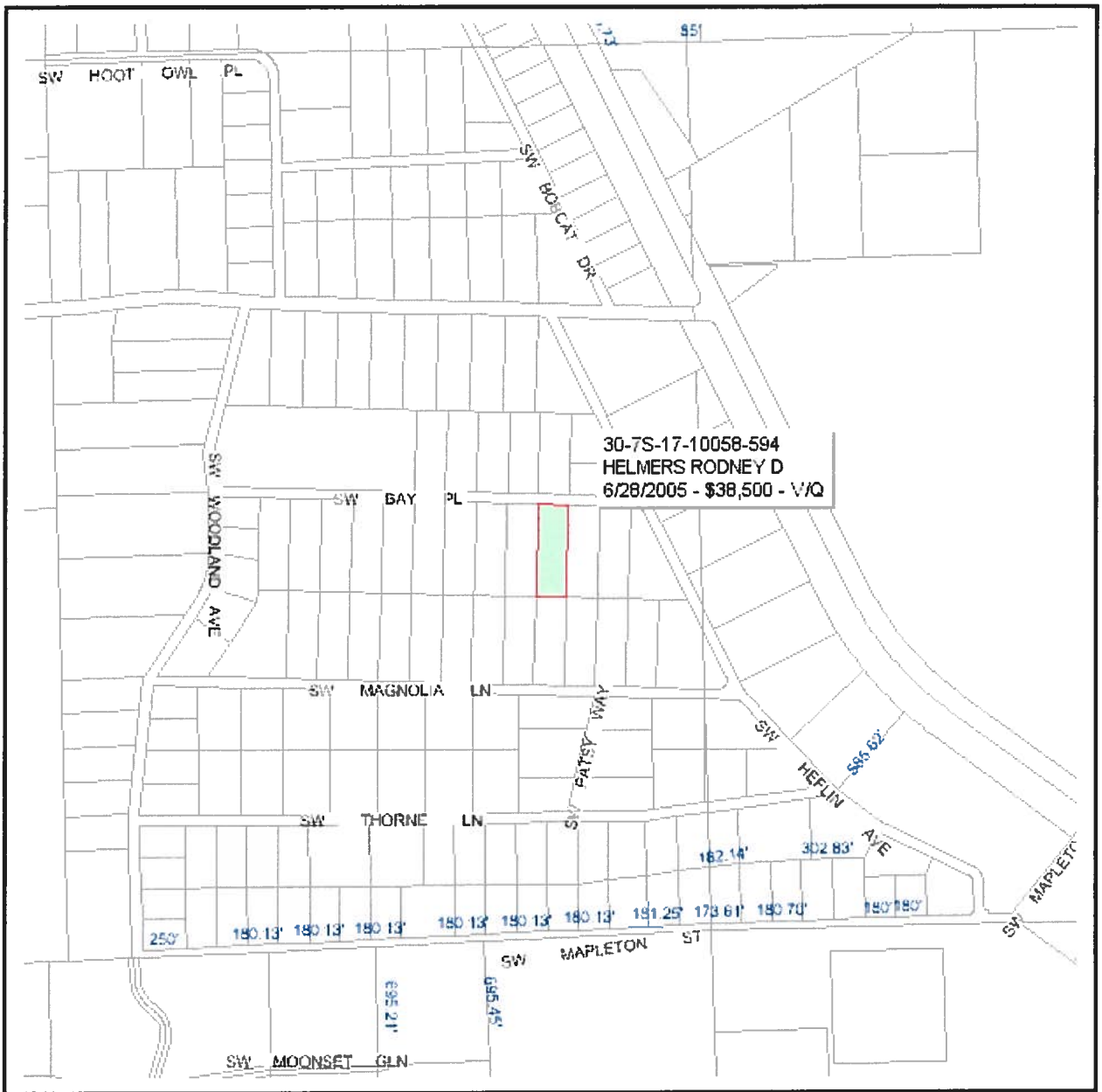
Sworn to (or affirmed) and subscribed before me this 27th day of February 2006.

Personally known ____ or Produced Identification ✓

FL Driver's License

Carol D. Short
Notary Signature

CAROL D. SHORT
Notary Public, State of Florida
My comm. expires Nov. 19, 2007
No. DD 269014



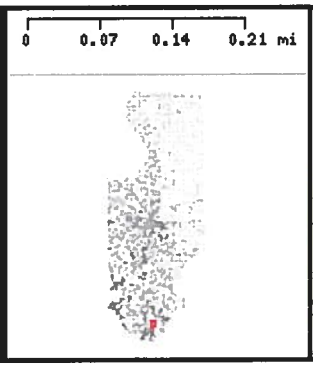
Columbia County Property Appraiser

J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

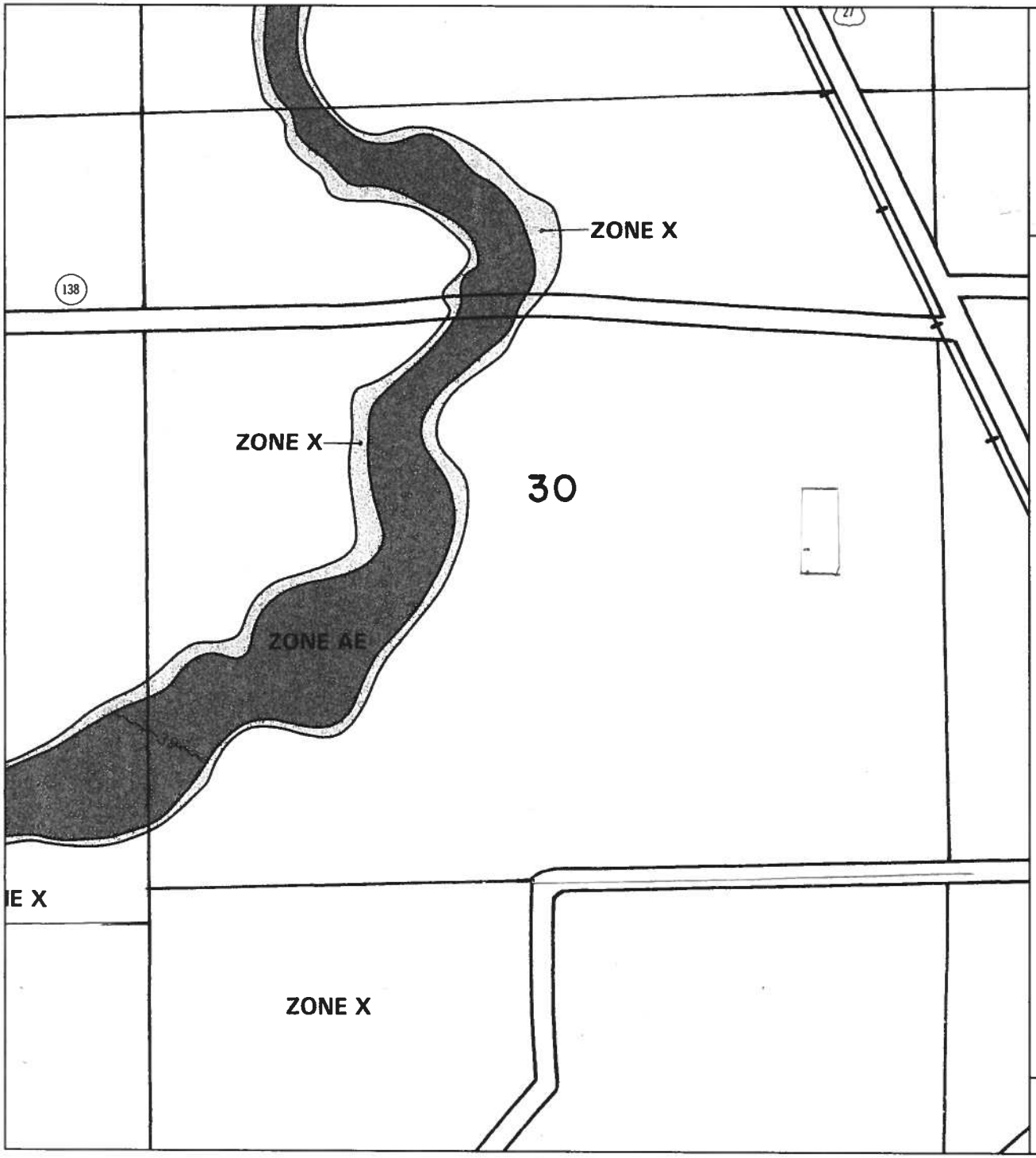
PARCEL: 30-7S-17-10058-594 - VACANT (000000)

LOT 4 SANTA FE RIVER PLANTATIONS REPLAT OF LOT 46. ORB 819-1287, 874-1287,

Name:	OLSZAK RONALD R & MARCIA A	LandVal	$33,196.00
Site:		BldgVal	$0.00
Mail:	P O BOX 2277 HIGH SPRINGS, FL 32655	ApprVal	$33,196.00
		JustVal	$33,196.00
Sales Info	11/30/2005 $81,500.00V / Q 6/28/2005 $38,500.00V / Q 5/10/2001 $100.00V / U	Assd	$33,196.00
		Exmpt	$0.00
		Taxable	$33,196.00



This information, GIS Map Updated: 8/3/2005, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.



APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

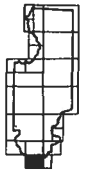
FIRM

FLOOD INSURANCE RATE MAP

COLUMBIA COUNTY, FLORIDA
(UNINCORPORATED AREAS)

PANEL 270 OF 290

PANEL LOCATION



COMMUNITY-PANEL NUMBER
120070 0270 B

EFFECTIVE DATE:
JANUARY 6, 1988

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Futher information about National Flood Insurance Program flood hazard maps is available at www.fema.gov/mit/tsd.

Print Date: 3/8/2006 (printed at scale and type A)

Inst:2005029922 Date:12/02/2005 Time:13:53
Doc Stamp-Deed : 570.50
DC,P.DeWitt Cason,Columbia County B:1066 P:2451

Prepared by
Deborah Bissell, an employee of
First American Title Insurance Company
23335 NW County Road 236, Suite 10
High Springs, Florida 32643
(386)454-2727

Return to: Grantee

File No.: 1095-1022371

WARRANTY DEED

This indenture made on **November 30, 2005** A.D., by

Rodney D. Helmers

whose address is: **P.O.Box 1173, High Springs, FL 32655**
hereinafter called the "grantor", to

Ronald R. Olszak and Marcia A. Olszak, husband and wife

whose address is: **P.O. Box 2277, High Springs, FL 32655**
hereinafter called the "grantee":
(Which terms "Grantor" and "Grantee" shall include singular or plural, corporation or individual, and either sex, and shall include heirs, legal representatives, successors and assigns of the same)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, ($10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in **Columbia** County, **Florida**, to-wit:

Lot 4, of a Replat of Lots 38, 45, and 46, of SANTA FE RIVER PLANTATIONS, according to the Plat thereof as recorded in Plat Book 5, Page(s) 13, of the Public Records of Columbia County, Florida.

Parcel Identification Number: **R10058-594**

The land is not the homestead of the Grantor under the laws and constitution of the State of Florida and neither the Grantor nor any person(s) for whose support the Grantor is responsible reside on or adjacent to the land.

Subject to all reservations, covenants, conditions, restrictions and easements of record and to all applicable zoning ordinances and/or restrictions imposed by governmental authorities, if any.

Inst:2005029922 Date:12/02/2005 Time:13:53
Doc Stamp-Deed : 570.50
DC,P.DeWitt Cason,Columbia County B:1066 P:2452

Together with all the tenements, hereditaments and appurtenances thereto belonging or in any way 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 whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31st of 2004.

In Witness Whereof, the grantor has hereunto set their hand(s) and seal(s) the day and year first above written.

Rodney D. Helmers

Signed, sealed and delivered in our presence:

Witness Signature

Print Name: DEBORAH BISSELL

Witness Signature

Print Name: Christopher Hood

State of **FL**

County of **Alachua**

The Foregoing Instrument Was Acknowledged before me on **November 30, 2005**, by **Rodney D. Helmers** who is/are personally known to me or who has/have produced a valid driver's license as identification.

DEBORAH L. BISSELL
MY COMMISSION # DD 305041
EXPIRES: May 28, 2008

NOTARY PUBLIC

Notary Print Name

My Commission Expires: _____

Columbia County Building Department
Culvert Waiver Permit / Application

Waiver No.

APPLICANT RONALD R. & MARCIA A. OLSZAK PHONE 386-454-8450

ADDRESS P. O. BOX 2277 HIGH SPRINGS, FL 32655

OWNER RONALD R. & MARCIA A. OLSZAK PHONE 386-454-8450

ADDRESS P.O BOX 2277 HIGH SPRINGS, FL 32655

CONTRACTOR OWNER/BUILDER PHONE ABOVE

LOCATION OF PROPERTY 200 SW BAY PL

PARCEL ID # 30-7S-17-10058-594

SUBDIVISION (Lot/Block/Phase/Unit) SANTA FE RIVER PLANTATION, LOT 4

I HEREBY CERTIFY THAT I UNBERSTAND AND WILL FULLY COMPLY WITH THE DECISION OF THE COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT IN CONNECTION WITH THE HEREIN PROPOSED APPLICATION.

SIGNED: Ronald R. Olszak DATE: July 23, 2006

FEE: $ 50.00 A SEPARATE CHECK IS REQUIRED.
MAKE CHECKS PAYABLE TO BCC.

Public Works Department Use Only

I HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATION AND DETERMINE THAT THE CULVERT WAIVER IS:

_____APPROVED _____NOT APPROVED – NEEDS A CULVERT PERMIT

COMMENTS _____

SIGNED: _____ DATE: _____

ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 386-752-5955.

135 NE Hernando Ave., Suite B-21, Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

COLUMBIA COUNTY 9-1-1 ADDRESSING

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

Addressing Maintenance

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

DATE REQUESTED: 1/19/2006 **DATE ISSUED:** 1/23/2006

ENHANCED 9-1-1 ADDRESS:

200 SW BAY PL

FORT WHITE FL 32038

PROPERTY APPRAISER PARCEL NUMBER:

30-7S-17-10058-594

Remarks:

LOT 4 SANTA FE RIVER PLANTATIONS REPLAT OF LOT 46

Address Issued By: _____

Columbia County 9-1-1 Addressing / GIS Department

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

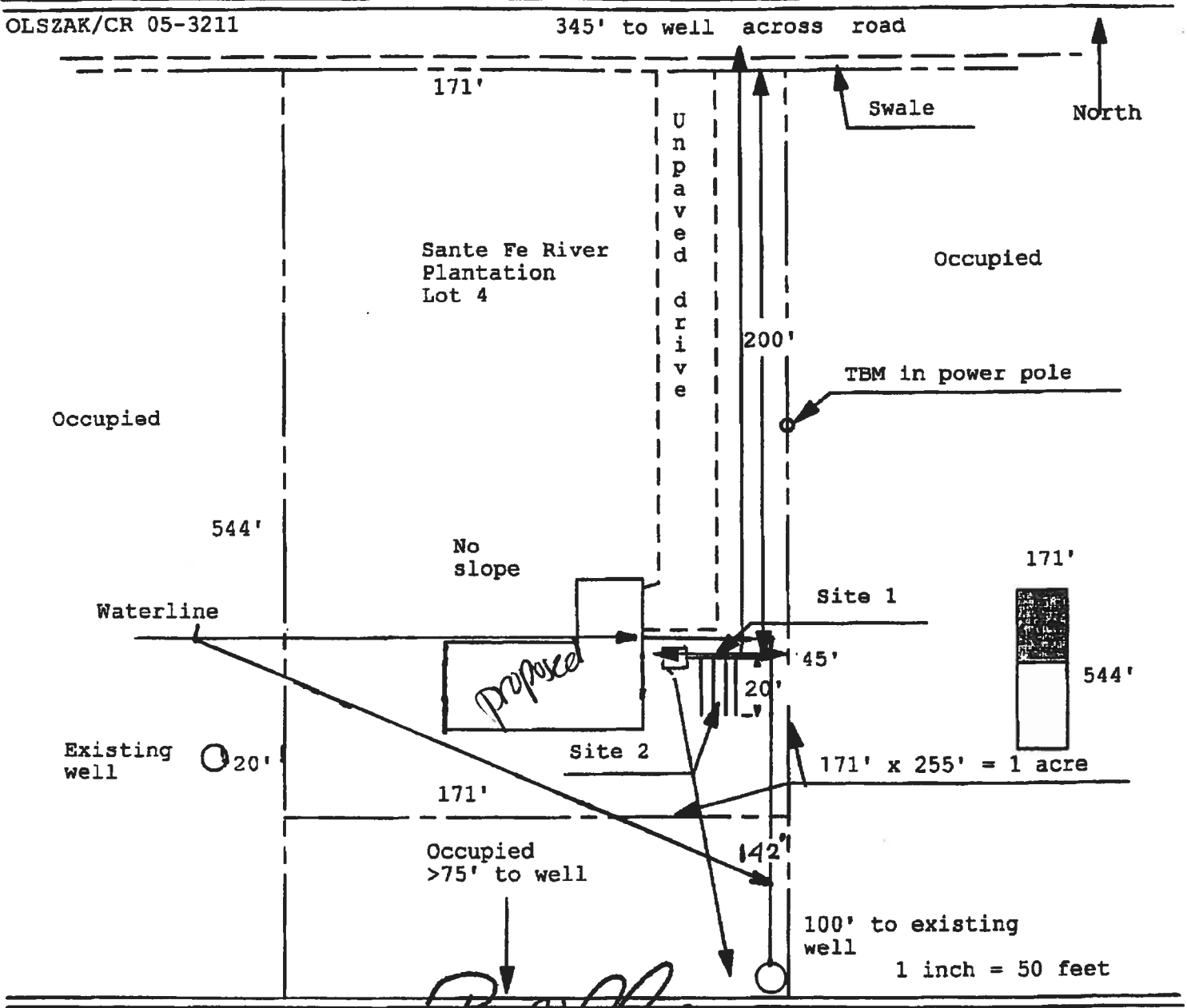
38

COLUMBIA COUNTY
9-1-1 ADDRESSING
APPROVED

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 06-0152N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Paul Floyd **Date** 11/20/06

Plan Approved ✓ **Not Approved** ____ **Date** 2.20.06

By Sallie Gladdy · ESII · COLUMBIA **CPHU**

Notes: _____

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

******THIS DOCUMENT MUST BE RECORDED AT THE COUNTY CLERKS OFFICE BEFORE YOUR FIRST INSPECTION.******

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

Tax Parcel ID Number 30-7S-17-10058-594

1. **Description of property: (legal description of the property and street address or 911 address)**
LOT 4, of A REPLAT OF LOTS 38, 45, AND 46, OF SANTA FE RIVER PLANTATIONS, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOKS, PAGE(S) 13, OF PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA

2. **General description of improvement:** NEW CONSTRUCTION SINGLE FAMILY

3. **Owner Name & Address** RONALD R. & MARCIA A. OLSZAK
P.O. BOX 2277 HIGH SPRINGS, FL 32655 **Interest in Property** OWNERS

4. **Name & Address of Fee Simple Owner (if other than owner):** _____

5. **Contractor Name** OWNER/BUILDER **Phone Number** #3 ABOVE
Address #3 ABOVE

6. **Surety Holders Name** N/A **Phone Number** _____
Address _____
Amount of Bond _____

7. **Lender Name** N/A **Phone Number** _____
Address _____

8. **Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:**
Name _____ **Phone Number** _____
Address _____

9. **In addition to himself/herself the owner designates** _____
_____ **to receive a copy of the Lienor's Notice as provided in Section 713.13 (**
(a) 7. Phone Number of the designee _____

10. **Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recordi**
(Unless a different date is specified) _____

NOTICE AS PER CHAPTER 713, Florida Statutes:
The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Marcia A. Olszak
Ronald R. Olszak
Signature of Owner

Sworn to (or affirmed) and subscribed before me this 27th **day of** Feb, **20**06

NOTARY STAMP/SEAL

Carol D. Short
Signature of Notary

NOTARY PUBLIC
CAROL D. SHORT
Notary Public, State of Florida
My comm. expires Nov. 19, 2007
No. DD 269014

Inst:200600004826 Date:02/28/2006 Time:14:36
DC,P.DeWitt Cason,Columbia County B:1075 P:1290

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Olszak Res.**	Builder:	owner
Address:		Permitting Office:	Columbia Co.
City, State:	,	Permit Number:	24296
Owner:		Jurisdiction Number:	221000
Climate Zone:	**North**		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	3	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	2087 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. Description (Dble Default) Area 264.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 264.0 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 198.0(p) ft	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 1447.0 ft²	
b.	Frame, Wood, Adjacent	R=13.0, 192.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 1152.0 ft²	
b.	Under Attic	R=30.0, 982.0 ft²	
c.	Under Attic	R=19.0, 272.0 ft²	
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 186.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit	Cap: 42.0 kBtu/hr SEER: 14.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 42.0 kBtu/hr HSPF: 9.00	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons EF: 0.90	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		

Glass/Floor Area: 0.13

Total as-built points: 26113
Total base points: 30061

PASS

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

PREPARED BY: _____

DATE: 2-21-06

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: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2087.0	20.04	7528.2	Double, Clear	W	0.0	0.0	82.0	38.52	1.00	3159.0	
				Double, Clear	N	0.0	0.0	38.0	19.20	1.00	729.6	
				Double, Clear	E	0.0	0.0	118.0	42.06	1.00	4963.5	
				Double, Clear	S	0.0	0.0	6.0	35.87	1.00	215.2	
				Double, Clear	NE	0.0	0.0	10.0	29.56	1.00	295.6	
				Double, Clear	W	0.0	0.0	10.0	38.52	1.00	385.2	
				As-Built Total:				**264.0**			**9748.1**	
WALL TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM	=	Points	
Adjacent	192.0	0.70	134.4	Frame, Wood, Exterior			13.0	1447.0	1.50		2170.5	
Exterior	1447.0	1.70	2459.9	Frame, Wood, Adjacent			13.0	192.0	0.60		115.2	
Base Total:	**1639.0**		**2594.3**	**As-Built Total:**				**1639.0**			**2285.7**	
DOOR TYPES	Area X	BSPM	= Points	Type				Area X	SPM	=	Points	
Adjacent	18.0	2.40	43.2	Exterior Insulated				36.0	4.10		147.6	
Exterior	36.0	6.10	219.6	Adjacent Insulated				18.0	1.60		28.8	
Base Total:	**54.0**		**262.8**	**As-Built Total:**				**54.0**			**176.4**	
CEILING TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM X SCM	=	Points	
Under Attic	2087.0	1.73	3610.5	Under Attic			30.0	1152.0	1.73 X 1.00		1993.0	
				Under Attic			30.0	982.0	1.73 X 1.00		1698.9	
				Under Attic			19.0	272.0	2.34 X 1.00		636.5	
Base Total:	**2087.0**		**3610.5**	**As-Built Total:**				**2406.0**			**4328.3**	
FLOOR TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM	=	Points	
Slab	198.0(p)	-37.0	-7326.0	Slab-On-Grade Edge Insulation			0.0	198.0(p	-41.20		-8157.6	
Raised	0.0	0.00	0.0									
Base Total:			**-7326.0**	**As-Built Total:**				**198.0**			**-8157.6**	
INFILTRATION	Area X	BSPM	= Points					Area X	SPM	=	Points	
	2087.0	10.21	21308.3					2087.0	10.21		21308.3	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 27978.1			**Summer As-Built Points:**					**29689.1**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 42000 btuh ,SEER/EFF(14.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)					
			29689	1.00	(1.09 x 1.147 x 1.00)	0.244	1.000	9048.9
27978.1	**0.4266**	**11935.5**	**29689.1**	**1.00**	**1.250**	**0.244**	**1.000**	**9048.9**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	2087.0	12.74	4785.9	Double, Clear	W	0.0	0.0	82.0	20.73	1.00	1699.7	
				Double, Clear	N	0.0	0.0	38.0	24.58	1.00	934.0	
				Double, Clear	E	0.0	0.0	118.0	18.79	1.00	2217.6	
				Double, Clear	S	0.0	0.0	6.0	13.30	1.00	79.8	
				Double, Clear	NE	0.0	0.0	10.0	23.57	1.00	235.7	
				Double, Clear	W	0.0	0.0	10.0	20.73	1.00	207.3	
				As-Built Total:				**264.0**			**5374.0**	
WALL TYPES	Area X	BWPM	= Points	Type			R-Value	Area X	WPM	=	Points	
Adjacent	192.0	3.60	691.2	Frame, Wood, Exterior			13.0	1447.0	3.40		4919.8	
Exterior	1447.0	3.70	5353.9	Frame, Wood, Adjacent			13.0	192.0	3.30		633.6	
Base Total:	**1639.0**		**6045.1**	**As-Built Total:**				**1639.0**			**5553.4**	
DOOR TYPES	Area X	BWPM	= Points	Type				Area X	WPM	=	Points	
Adjacent	18.0	11.50	207.0	Exterior Insulated				36.0	8.40		302.4	
Exterior	36.0	12.30	442.8	Adjacent Insulated				18.0	8.00		144.0	
Base Total:	**54.0**		**649.8**	**As-Built Total:**				**54.0**			**446.4**	
CEILING TYPES	Area X	BWPM	= Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	2087.0	2.05	4278.3	Under Attic			30.0	1152.0	2.05 X	1.00	2361.6	
				Under Attic			30.0	982.0	2.05 X	1.00	2013.1	
				Under Attic			19.0	272.0	2.70 X	1.00	734.4	
Base Total:	**2087.0**		**4278.3**	**As-Built Total:**				**2406.0**			**5109.1**	
FLOOR TYPES	Area X	BWPM	= Points	Type			R-Value	Area X	WPM	=	Points	
Slab	198.0(p)	8.9	1762.2	Slab-On-Grade Edge Insulation			0.0	198.0(p	18.80		3722.4	
Raised	0.0	0.00	0.0									
Base Total:			**1762.2**	**As-Built Total:**				**198.0**			**3722.4**	
INFILTRATION	Area X	BWPM	= Points					Area X	WPM	=	Points	
	2087.0	-0.59	-1231.3					2087.0	-0.59		-1231.3	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**16290.0**	**Winter As-Built Points:**					**18974.0**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 42000 btuh ,EFF(9.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
			18974.0	1.000	(1.069 x 1.169 x 1.00)	0.379	1.000	8983.9
16290.0	**0.6274**	**10220.4**	**18974.0**	**1.00**	**1.250**	**0.379**	**1.000**	**8983.9**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT						
WATER HEATING										
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total
3		2635.00	7905.0	40.0	0.90	3	1.00	2693.56	1.00	8080.7
				As-Built Total:						**8080.7**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	Heating Points	Hot Water Points	Total Points	Cooling Points	Heating Points	Hot Water Points	Total Points
11935	**10220**	**7905**	**30061**	**9049**	**8984**	**8081**	**26113**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.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	606.1.ABC.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	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	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%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.4

The higher the score, the more efficient the home.

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 42.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 14.00
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	2087 ft²		c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description Area	13.	Heating systems	
	(or Single or Double DEFAULT)	7a. (Dble Default) 264.0 ft²		a. Electric Heat Pump	Cap: 42.0 kBtu/hr
	b. SHGC:				HSPF: 9.00
	(or Clear or Tint DEFAULT)	7b. (Clear) 264.0 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 198.0(p) ft		c. N/A	
	b. N/A				
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 40.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 1447.0 ft²			EF: 0.90
	b. Frame, Wood, Adjacent	R=13.0, 192.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 1152.0 ft²	15.	HVAC credits	
	b. Under Attic	R=30.0, 982.0 ft²		(CF-Ceiling fan, CV-Cross ventilation,	
	c. Under Attic	R=19.0, 272.0 ft²		HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 186.0 ft		MZ-C-Multizone cooling,	
	b. N/A			MZ-H-Multizone heating)	

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 score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) 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 www.fsec.ucf.edu 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.*

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

GEO-TECH, INC.
ENGINEERING CONSULTANTS IN GEOTECHNICAL • ENVIRONMENTAL • CONSTRUCTION MATERIALS TESTING

March 17, 2006
Project No. 062726.01G

Mr. & Mrs. Olszak
P.O. Box 2277
High Springs, FL 32655

Attention: Mr. & Mrs. Olszak

Project: Proposed Residence and Shed, Santa Fe River Plantation, Columbia County, Florida
Soil Bearing Capacity

Dear Mr & Mrs. Olszak:

As requested, Geo-Technologies, Inc. (Geo-Tech) has visited the above referenced project site. The purpose of our visit was to perform penetrometer readings in the area that the proposed residence and shed will be placed based on Hand Penetrometer (HP) results in the native soils. Six (6) auger borings with penetrometer readings were performed to four (4) feet below site grade. Based on the results of the penetrometer readings, the maximum allowable soil bearing pressures found at these locations are approximately 2, 000 pounds per square foot based

Geo-Technologies, Inc. (Geo-Tech) trust this report is sufficient to meet your immediate needs. Should you have any questions concerning this report or if we may be of further assistance, please do not hesitate to contact the undersigned.

Sincerely,

Donald "Bubba" Youngblood
Branch Manager

DY/DC: kw

David A. Zapp, P.E.
Florida Registration No. 58539

4000 SW 35TH TERRACE, SUITE C • GAINESVILLE, FLORIDA 32608 • PHONE (352) 372 1274 • FAX (352) 372 2721

Hold For Soil Test

From: The Columbia County Building Department
Plans Review
135 NE Hernando Av.
P. O Box 1529
Lake City Florida, 32056-1529

Reference to: Build permit application Number: 0602-99

Ronald & Marcia Olszak Owner/Builders of lot 4 Santa Fe Plantations

On the date of March 8, 2006 application 0602-99 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0602-99 when making reference to this application.

1. Please have Mr. Thomas Sputo the structural designer show on the plans the required load bearing capacities of the soils to provide adequate support for the foundations.
2. The elevation drawing submitted show that the roof pitch will be at a 6/12 pitch. The submitted engineered truss plans show the truss system to be a 7/12 pitch. Please confirm that the submitted engineered truss plans are of the correct roof pitch.
3. Please verify compliance with the FRC-2004 section R308.4 Hazardous locations: Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any part of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface.

4. Please have Mr. Thomas Sputo show on the plans the load bearing supporting headers which will support all the opening (Garage doors, bay windows, doors and supporting beams for the porches.

5. On the electrical plan show the location of the electrical panel and include the total amperage rating of the electrical service panel also show the overcurrent protection device which shall be installed on the exterior of structures to serve as a disconnecting means. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.

6. Please show compliance with the FRC-2004 section R602.8 Fireblocking shall be provided to cut off all concealed draft openings (both vertical and horizontal) and to form an effective fire barrier between stories, and between a top story and the roof space. Fireblocking shall be provided in wood-frame construction in the following locations.

   1. In concealed spaces of stud walls and partitions, including furred spaces and parallel rows of studs or staggered studs; as follows:

      1.1. Vertically at the ceiling and floor levels.

      1.2. Horizontally at intervals not exceeding 10 feet (3048 mm).

   2. At all interconnections between concealed vertical and horizontal spaces such as occur at soffits, drop ceilings and cove ceilings.

   3. In concealed spaces between stairs stringers at the top and bottom of the run. Enclosed spaces under stairs shall comply with Section R311.2.2.

4. At openings around vents, pipes, and ducts at ceiling and floor level, with an approved material to resist the free passage of flame and products of combustion.

7. The air handler unit location as shown on the plans will be suspended from the bottom cords of roof truss system. Please provide an approval letter form the truss manufacture that the truss design is of adequate strength to support the suspension of the air handler unit.

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

Phone #: 386-454-8450

The Columbia County Building Department
Plans Review
135 NE Hernando Av.
P. O Box 1529
Lake City Florida, 32056-1529

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   1. In concealed spaces of stud walls and partitions, including furred spaces and parallel rows of studs or staggered studs; as follows:

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4. At openings around vents, pipes, and ducts at ceiling and floor level, with an approved material to resist the free passage of flame and products of combustion.

7. The air handler unit location as shown on the plans will be suspended from the bottom cords of roof truss system. Please provide an approval letter form the truss manufacture that the truss design is of adequate strength to support the suspension of the air handler unit.

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

WIND RESISTANCE ENGINEERING CALCULATIONS FOR OLSZAK RESIDENCE 200 SW Bay Pl Ft. White, FL

HOUSE

Revised - 9 Mar 06
per Bldg Dept Comments

DESIGNED IN ACCORDANCE WITH REQUIREMENTS OF 2004 FLORIDA BUILDING CODE, SECTION 1609 FOR 110 MPH WIND SPEED

9 Mar 06

THOMAS SPUTO, PH.D., P.E.
PE 39142

SPUTO AND LAMMERT ENGINEERING, LLC
STRUCTURAL ENGINEERS
10 SW 1st AVENUE, GAINESVILLE, FLORIDA 32601
(352) 378-0448
CA 6855

SPUTO AND LAMMERT ENGINEERING, LLC
STRUCTURAL ENGINEERS
10 SW 1ST AVENUE, GAINESVILLE, FL 32601
PHONE: 352-378-0448 FAX: 352-373-1331
E-MAIL: sputoandlammert@mindspring.com

HOUSE

Wind resistance of the referenced building has been designed using a wind speed of 110 mph as required by Section 1609, 2004 Florida Building Code.

ROOF SHEATHING: ½" Plywood or 7/16" OSB, installed without blocking. Use 8d common or 10-1/4 gage x 2" minimum length power nails at 6" o.c. at sheet edges and 12" o.c. in the sheet field. The roof acts as a structural diaphragm.

WALL SHEATHING: ½" Plywood or 7/16" OSB, installed with blocking at all horizontal sheet edges. Sheathing is installed from bottom to top plate to provide a continuous load path. Use 8d common or 10-1/4 gage x 2" minimum length power nails at 4" o.c. at vertical sheet edges, 4" o.c. at horizontal sheet edges, and 12" o.c. in the sheet field.

SHEARWALLS: See plan sheet for locations.

WALL STUDS: #2 Spruce or better 2x6 at 16" o.c.

ANCHOR BOLTS: ½" with 3" SQUARE washer at maximum spacing of 48" o.c. Install one bolt within 6" of all corners, and within 6" of the ends of all windows and doors. (Anchor bolt alternate - 5/8" wedge anchor with 4" embed into concrete.) USE 3" SQUARE WASHERS AT EACH END OF ALL SHEARWALLS.

HURRICANE CLIPS: Sized as follows.

TRUSS	BEARING	HARDWARE
A1	2, 10	(1) Simpson H10 and (1) Simpson LSTA21
B1	2, 10	(1) Simpson H10 and (1) Simpson LSTA21
C1	2, 8	(2) Simpson H10

One Ply Truss (except trusses above):	(1) Simpson H10
Truss to Truss:	Specified by truss manufacturer, IAW Wood Truss Council of America Standard WTCA 1-1995.

CONCRETE: All concrete shall have a 28 day compressive strength of 3000 psi.

REINFORCING STEEL: Grade 40 - #5 bars. All lap splices to be a minimum of 25 inches.

POSTS: Shall be 6x6 PT #2 Southern Pine. Post cap shall be Simpson CCQ46SDS2.5-HDG with Simpson ECCQ46SDS2.5-HDG for end conditions. Post base shall be Simpson ABU66Z. Alternate products with uplift capacity of 1225# may be substituted.

NOTE: 10-1/4 GAGE NAILS HAVE A DIAMETER OF 0.131 INCHES.

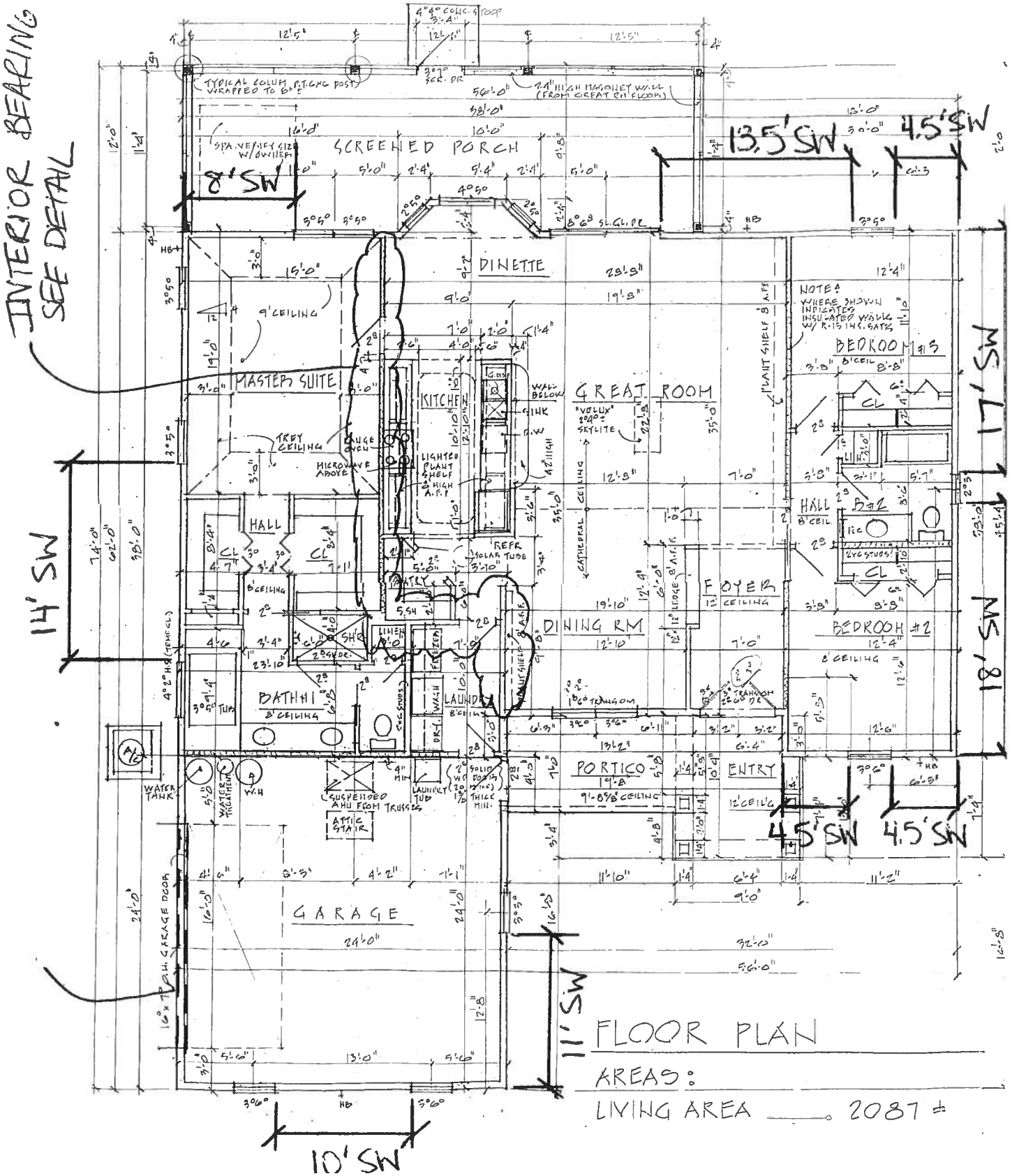
2004 Florida Building Code Section 1603.1.4 Information

Basic Wind Speed	=	110 mph
Importance Factor	=	1.00
Building Category	=	II
Wind Exposure	=	B
Internal Pressure Coefficient	=	+- 0.18
C & C Pressures	=	Zone 4 = 22.6 psf
		Zone 5 = 27.2 psf

ASSUMED SOIL BEARING PRESSURE = 2000 PSF

Shearwall Legend

↑ TRANSVERSE ↔ LONGITUDINAL

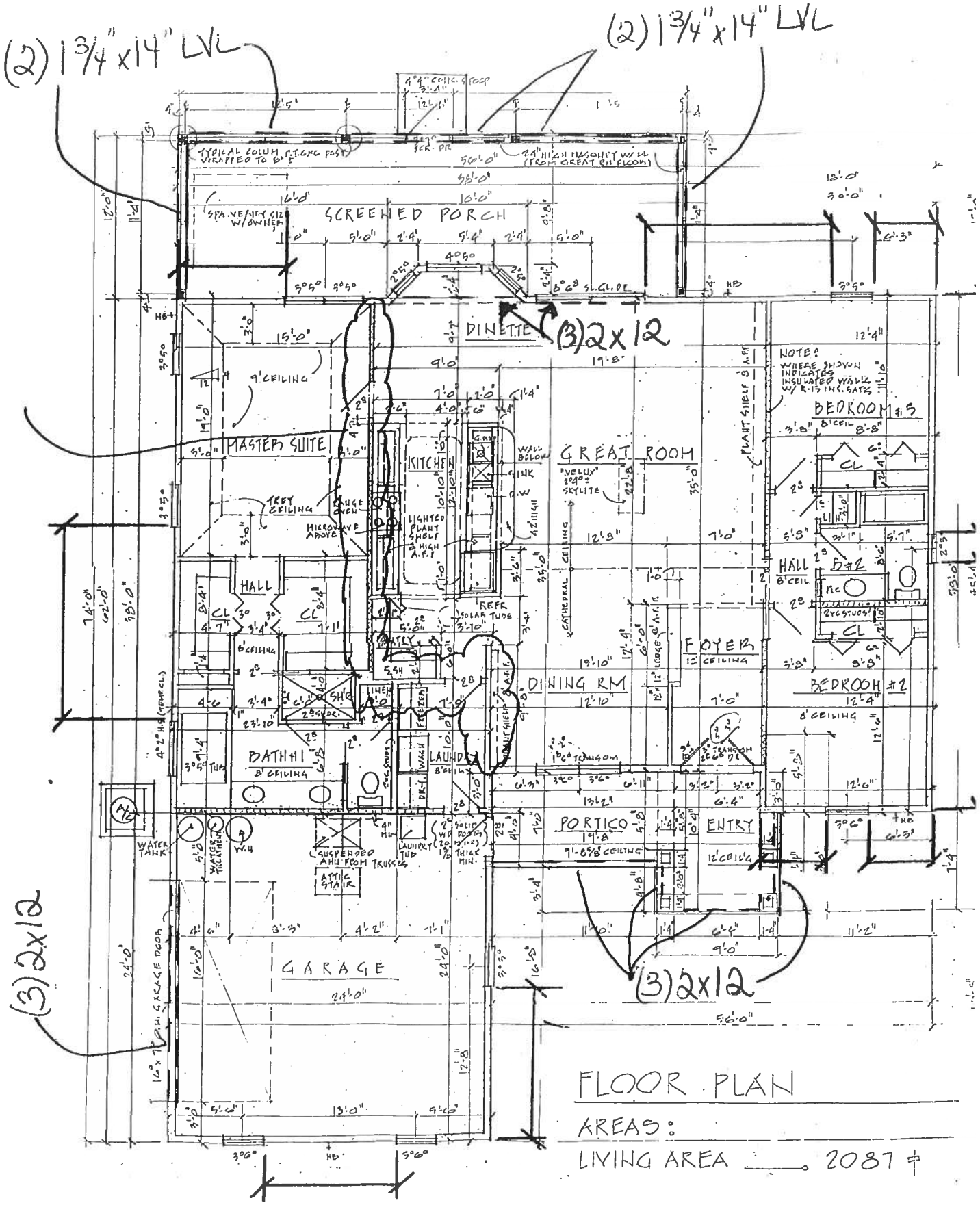


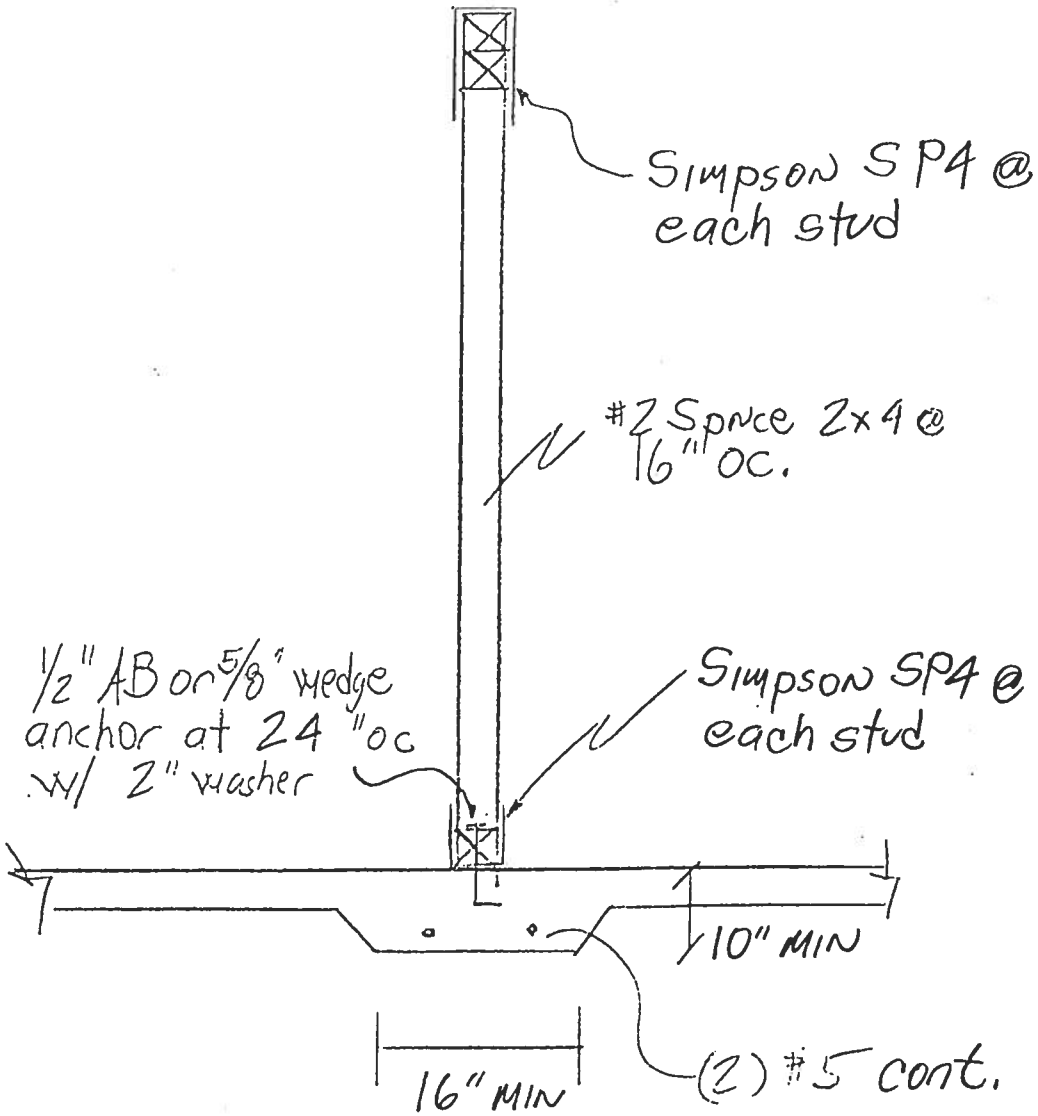
FLOOR PLAN

AREAS:

LIVING AREA ____ 2087 ±

ALL HEADERS NOT SPECIFIED = (3) 2x10



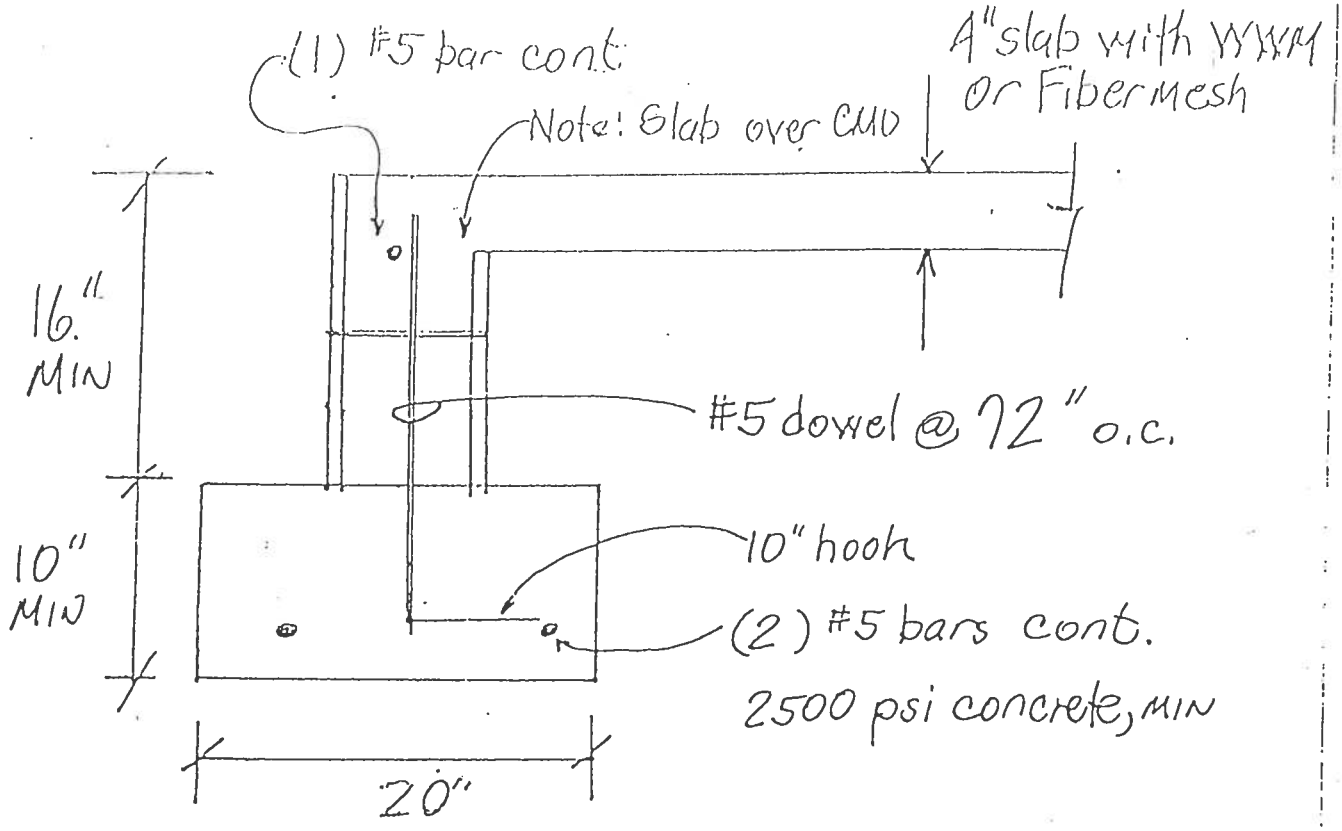


Interior Bearing Wall

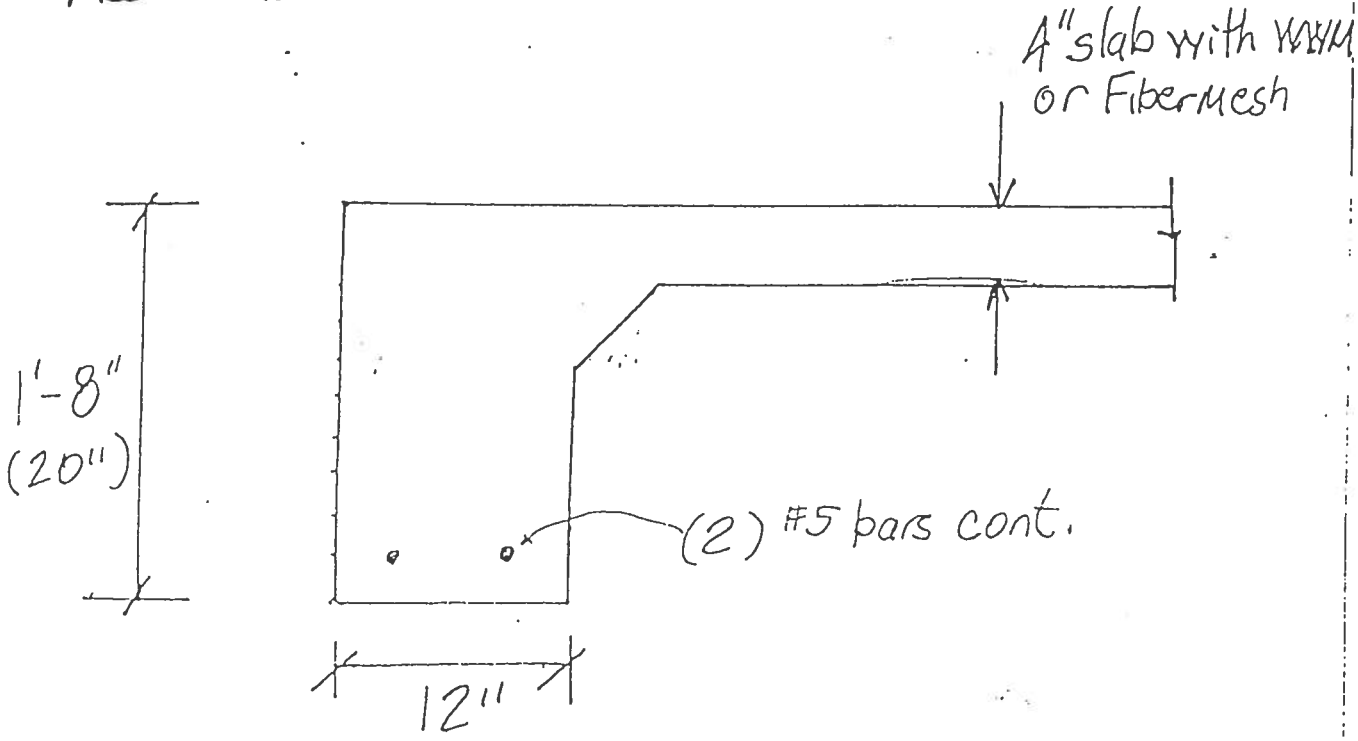
ASSUMED BEARING PRESSURE = 2000 PSF

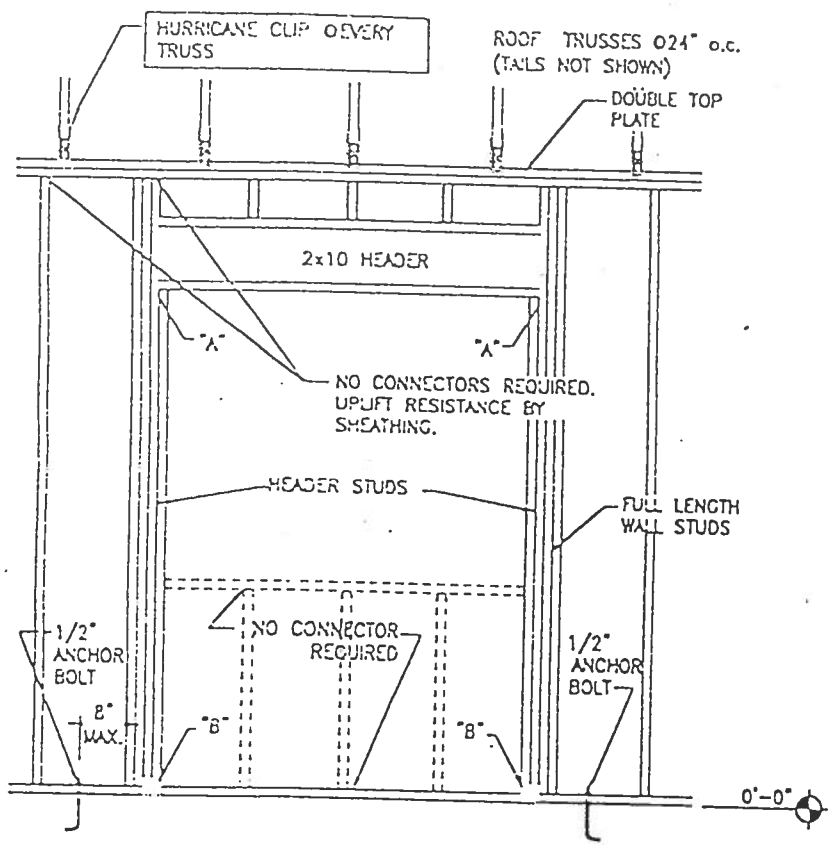
All rebar - Grade 40
All concrete - 3000 psi MIN

Foundation Alternatives



ASSUMED SOIL BEARING PRESSURE = 2000 PSF





OPENING FRAMING DETAIL

CONNECTOR SELECTION

SPAN •	'A'	'B'	ANCHOR BOLTS
9'-0" AND UNDER	(1) LSTA24	(1) SP4 •	(1) EACH END
OVER 9'-0"	(2) LSTA24	(2) SP4 •	(1) EACH END

• USE SP6 ON 2X6 WALLS

NOTES:

1. CONNECTORS INDICATED ARE BY SIMPSON STRONG TIE CO., INC. PRE-APPROVED EQUAL MAY BE USED.

2. STANDARD WALL HEIGHT SHOWN. WALL HEIGHT MAY VARY. ADJUST HEAD AND SILL HEIGHT WITH CRIPPLES AS REQUIRED.

3. REFER TO HEADER HOLD DOWN CHART FOR NUMBER OF FULL-LENGTH AND HEADER STUDS REQUIRED FOR DIFFERENT OPENING WIDTHS.

4. SHEAR AND UPLIFT RESISTANCE PROVIDED BY SHEATHING. REFER TO STRUCTURAL ENGINEER'S NOTES ON THIS SHEET.

HEADER HOLD DOWNS

		MAXIMUM HEADER SPAN (IL)					
		3	6	9	12	15	18
		NUMBER OF HEADER STUDS SUPPORTING END OF HEADER					
		1	1	2	2	2	2
UNSUPPORTED WALL HEIGHT	STUD SPACING	NUMBER OF FULL-LENGTH STUDS AT EACH END OF HEADER					
10'-0" OR LESS	12 in.	2	2	3	3	3	3
	16 in.	2	2	3	3	3	3
	24 in.	1	2	2	2	2	2
GREATER THAN 10'-0"	12 in.	2	2	3	4	5	5
	16 in.	2	2	3	3	4	4
	24 in.	1	2	2	2	3	3

HRS/ST/FHA/PS/HST/LSTA/LSTI/MST/MSTA/MSTC/MSTI *Strap Ties*

SIMPSON

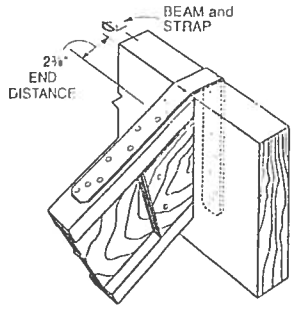
CODES: See page 12 for Code Listing Key Chart.

Available with additional corrosion protection. Check with factory.

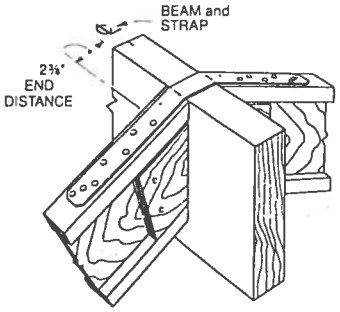
Model No.	Ga	Dimensions W	Dimensions L	Fasteners (Total) Nails	Allowable Tension Loads (DF/SP) (133)	Allowable Tension Loads (DF/SP) (160)	Allowable Tension Loads (SPF/HF) (133)	Allowable Tension Loads (SPF/HF) (160)	Code Ref.
LSTA9	20	1¼	9	8-10d	645	775	555	665	7, 62, 90, 128
LSTA12		1¼	12	10-10d	805	970	695	830	
LSTA15		1¼	15	12-10d	970	1160	830	1000	
LSTA18		1¼	18	14-10d	1130	1235	970	1165	
LSTA21		1¼	21	16-10d	1235	1235	1110	1235	
LSTA24		1¼	24	18-10d	1235	1235	1235	1235	
ST292		2⁹⁄₁₆	9⁵⁄₁₆	12-16d	1120	1265	970	1160	3, 39, 88, 104, 121, 128
ST2122		2⁹⁄₁₆	12¹³⁄₁₆	16-16d	1505	1535	1290	1535	
ST2115		¾	16⁵⁄₁₆	8-16d	665	665	665	665	
ST2215		2⁹⁄₁₆	16⁵⁄₁₆	20-16d	1880	1880	1625	1880	
LSTA30	18	1¼	30	22-10d	1640	1640	1555	1640	7, 62, 90, 128
LSTA36		1¼	36	24-10d	1640	1640	1640	1640	
LSTI49		3¾	49	32-10dx1½	2580	3100	2220	2660	9, 121, 128
LSTI73		3¾	73	48-10dx1½	3870	4215	3330	3995	9, 128
MSTA9		1¼	9	8-10d	650	780	565	680	7, 62, 90, 123, 128
MSTA12		1¼	12	10-10d	815	975	705	850	
MSTA15		1¼	15	12-10d	975	1170	850	1020	
MSTA18		1¼	18	14-10d	1140	1365	990	1185	
MSTA21		1¼	21	16-10d	1300	1560	1130	1355	7, 62, 90, 128
MSTA24		1¼	24	18-10d	1465	1640	1270	1525	
MSTA30	16	1¼	30	22-10d	1835	2050	1585	1900	
MSTA36		1¼	36	26-10d	2050	2050	1870	2050	
ST6215		2⁹⁄₁₆	16⁵⁄₁₆	20-16d	1895	2095	1640	1970	3, 39, 88, 104, 121, 128
ST6224		2⁹⁄₁₆	23⁵⁄₁₆	28-16d	2540	2540	2315	2540	
ST9		1¼	9	8-16d	755	910	655	785	3, 39, 88, 104, 121, 128
ST12		1¼	11⅝	10-16d	945	1135	820	985	3, 39, 88, 121, 128
ST18		1¼	17¾	14-16d	1325	1420	1150	1380	
ST22		1¼	21⅝	18-16d	1420	1420	1420	1420	
MSTC28		3	28¼	36-16d sinkers	3000	3600	2590	3110	9, 23, 121, 128
MSTC40		3	40¼	52-16d sinkers	4335	4585	3745	4495	9, 23, 128
MSTC52		3	52¼	62-16d sinkers	4585	4585	4465	4585	
MSTC66	14	3	65¾	76-16d sinkers	5660	5660	5660	5660	
MSTC78		3	77¾	76-16d sinkers	5660	5660	5660	5660	
ST6236		2⁹⁄₁₆	33¹³⁄₁₆	40-16d	3845	3845	3465	3845	3, 39, 88, 104, 121, 128
HRS6	12	1⅜	6	6-10d	525	630	455	545	128
HRS8		1⅜	8	10-10d	875	1050	760	910	
HRS12		1⅜	12	14-10d	1225	1465	1065	1275	
FHA6		1⁷⁄₁₆	6⅜	8-16d	810	975	705	845	3, 39, 88, 121, 128
FHA9		1⁷⁄₁₆	9	8-16d	810	975	705	845	
FHA12		1⁷⁄₁₆	11⅝	8-16d	810	975	705	845	
FHA18		1⁷⁄₁₆	17¾	8-16d	810	975	705	845	
FHA24		1⁷⁄₁₆	23⅞	8-16d	810	975	705	845	
FHA30		1⁷⁄₁₆	30	8-16d	810	975	705	845	
MSTI26		2⁹⁄₁₆	26	26-10dx1½	2355	2830	2045	2455	
MSTI36		2⁹⁄₁₆	36	36-10dx1½	3265	3915	2830	3400	
MSTI48		2⁹⁄₁₆	48	48-10dx1½	4350	5080	3775	4530	
MSTI60		2⁹⁄₁₆	60	60-10dx1½	5080	5080	4720	5080	
MSTI72		2⁹⁄₁₆	72	64-10dx1½	5080	5080	5080	5080	3, 39, 121, 128

1. Loads include a 33% or 60% load duration increase on the fasteners for earthquake or wind loading, but DO NOT include a 33% stress increase on the steel capacity. Refer to page 13 for further explanation.
2. 10dx1½" nails may be substituted where 16d sinkers are specified at ... of the table loads.
3. 10d commons may be substituted where 16d sinkers are specified at 100% of table loads.
4. 16d sinkers or 10d commons may be substituted where 16d commons are specified at 0.85 of the table loads.
5. Use half of the nails in each member being connected to achieve the listed loads.
6. PS strap design loads must be determined by the for each installation. Bolts are installed both perpendicular and parallel-to-grain. Hole diameter in the part may be oversized to accommodate the HDG. Designer must determine if the oversize creates an unacceptable installation.
7. For overlap splice details, refer to T-CMST.

... with no reduction in load
... = ... x 3" long

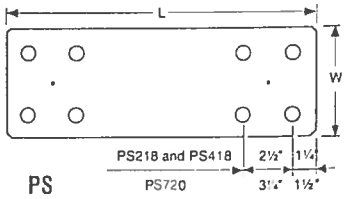


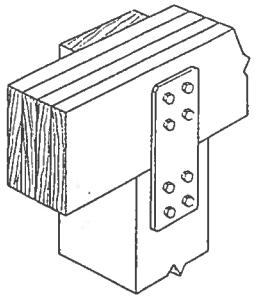
Typical LSTA Installation
(hanger not shown)



Typical LSTA Installation
(hanger not shown)

Model No.	Material Thickness mil (ga)	Dim. W	Dim. L	Bolts Qty	Bolts Dia	Code Ref.
PS218[6]	171 mil (7 ga)	2	18	4		180
PS418[6]		4	18	4		
PS720[6]		6¾	20	8	½	





Typical PS720 Installation

DSP/SSP/SP/SPH/RSP4 Stud Plate Ties

This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

DSP and SSP provide flexibility in the field – can be used as a plate to stud connection AND top plate to stud connection.

The RSP4 is a reversible stud plate tie with locating tabs, which aid placement on double top plates or a single bottom plate.

MATERIAL: DSP/SSP/SPH-18 gauge, all others-20 gauge

FINISH: Galvanized. Some products available in Z-MAX; see Corrosion-Resistance, page 6-7.

INSTALLATION: • Use all specified fasteners; see General Notes.
- DSP/SSP–sill plate installation-fill all round holes.
- DSP/SSP–top plate installation-fill all round and triangle holes.
- SP–one of the 10d common stud nails is driven at a 45° angle through the stud into the plate.

CODES: See page 12 for Code Listing Key Chart.

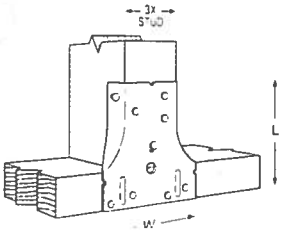
Available with additional corrosion protection. Check with factory.

Model No.	Dim. W	Dim. L	Fasteners: Studs	Fasteners: Double Top Plate	Fasteners: Single Sill Plate	Allowable Uplift Loads (133/160): Double Top Plate DF/SP/SPF	Single Sill Plate DF/SP	Single Sill Plate SPF/HF	Code Ref.
SSP	1⅜	6¹⁵⁄₁₆	4-10dx1½	3-10dx1½	—	350	—	—	62, 125
				—	1-10dx1½	—	420	325	
			4-10d	3-10d	—	435	—	—	
				—	1-10d	—	455	420	
DSP	2¾	6¹⁵⁄₁₆	8-10dx1½	6-10dx1½	—	775	—	—	
				—	2-10dx1½	—	660	545	
			8-10d	6-10d	—	825	—	—	
				—	2-10d	—	825	600	

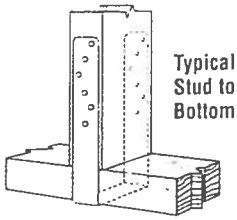
1. Allowable loads have been increased 33% and 60% for earthquake or wind loading; no further increase allowed.
2. When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
3. Allowable loads for DSP installed to a rim joist are 660 lbs (DF/SP), 545 lbs (SPF/HF).
4. NAILS: 10d = 0.148" dia. x 3" long. 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information.

Model No.	Dim. W	Dim. L	Stud	Plate Width	Fasteners: Stud[1]	Fasteners: Plate	Allowable Uplift Loads DF/SP (133)[2]	DF/SP (160)[2]	SPF (133)	SPF (160)	Code Ref.
SP1	3½	5¹⁵⁄₁₆	2x	—	6-10d	4-10d	585	585	535	535	6, 121
SP2	3½	6⅝	2x	—	6-10d	6-10d	890	1065	605	605	160
SP3	4½	6⅝	3x	—	6-10d	6-10d	890	1065	605	605	7, 121
SP4	3⁹⁄₁₆	7¼	2x	4x	6-10dx1½	—	735	885	630	760	160
SP5	4½	5¹⁵⁄₁₆	3x	—	6-10d	4-10d	585	585	535	535	7, 121
SP6	5⁹⁄₁₆	7¾	2x	6x	6-10dx1½	—	735	885	630	760	
SP8	7⁵⁄₁₆	8³⁄₁₆	2x	8x	6-10dx1½	—	735	885	630	760	
SPH4	3⁹⁄₁₆	8¾	2x	4x	10-10dx1½	—	1240	1240	1065	1065	62, 123
					12-10dx1½	—	1360	1360	1170	1170	
SPH6	5⁹⁄₁₆	9¼	2x	6x	10-10dx1½	—	1240	1240	1065	1065	
					12-10dx1½	—	1360	1360	1170	1170	
SPH8	7⁵⁄₁₆	8⅜	2x	8x	10-10dx1½	—	1240	1240	1065	1065	
					12-10dx1½	—	1360	1360	1170	1170	
RSP4(1)	2⅛	4½	2x	—	4-8dx1½	4-8dx1½	315	315	285	285	6, 30, 99, 121
RSP4(2)	2⅛	4½	2x	—	4-8dx1½	4-8dx1½	450	450	370	370	

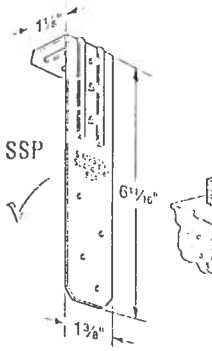
1. SP1, 2, 3 and SP5: drive one stud nail at an angle through the stud into the plate to achieve the table load *(see illustration)*.
2. Allowable loads have been increased for earthquake or wind loading; no further increase allowed. Reduce where other loads govern.
3. RSP4–see Installation details (1) and (2) for reference.
4. RSP4 F2 is 280 lbs *(installation 1)* and 305 lbs *(installation 2)*. F1 load is 210 lbs for both installations.
5. Maximum load for SPH in Southern Yellow Pine is 1490 lbs.
6. When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
7. For retrofit application see T-STRAP.

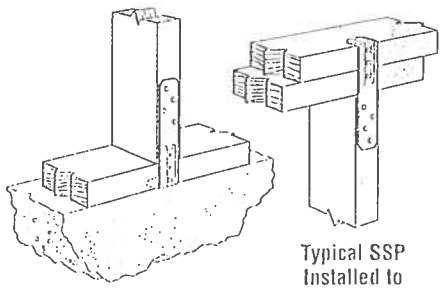


Typical SP5 Installed *(SP3 similar installed at double top plate)*



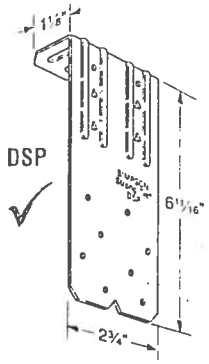
Typical SPH4 Stud to Single Bottom Plate

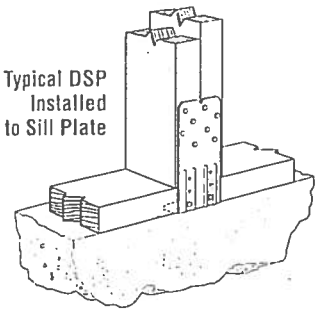




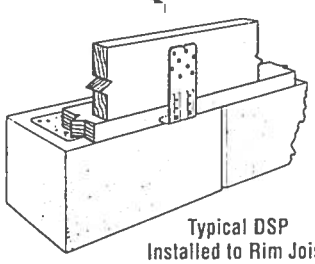
Typical SSP Installed to Sill Plate

Typical SSP Installed to Top Plate

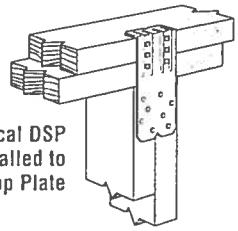




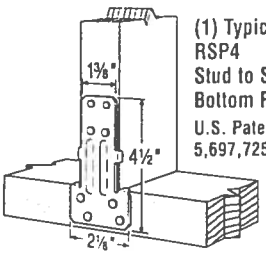
Typical DSP Installed to Sill Plate



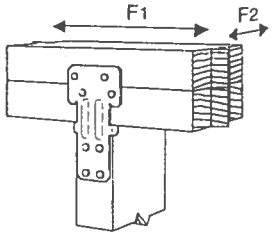
Typical DSP Installed to Rim Joist



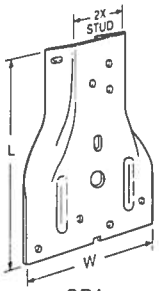
Typical DSP Installed to Top Plate



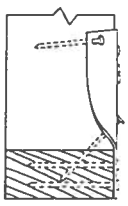
(1) Typical RSP4 Stud to Single Bottom Plate
U.S. Patent 5,697,725



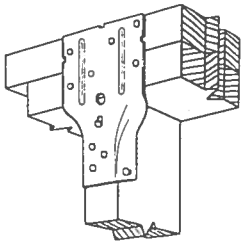
(2) Typical RSP4 Stud to Double Top Plate *(See footnote 4)*



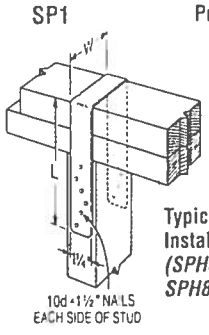
SP1



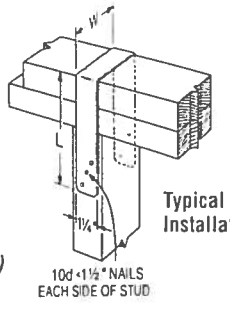
SP1 Nailing Profile



Typical SP2 Installation



Typical SPH4 Installation *(SPH6 and SPH8 similar)*



Typical SP4 Installation

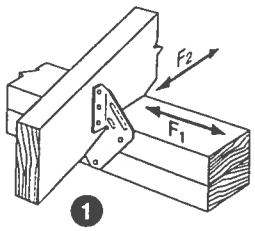
H Seismic & Hurricane Ties

SIMPSON Strong-Tie

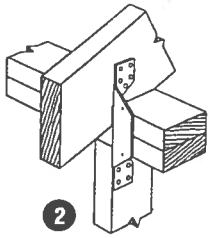
Available with additional corrosion protection. Check with factory.

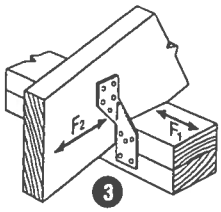
Model No.	Ga	Fasteners: To Rafters/ Truss	Fasteners: To Plates	Fasteners: To Studs	DF/SP Allowable Loads: Uplift (133)	DF/SP Allowable Loads: Uplift (160)	DF/SP Allowable Loads: Lateral (133/160) F_1	DF/SP Allowable Loads: Lateral (133/160) F_2	Uplift Load with 8dx1½" Nails (133 & 160)	SPF/HF Allowable Loads: Uplift (133)	SPF/HF Allowable Loads: Uplift (160)	SPF/HF Allowable Loads: Lateral (133/160) F_1	SPF/HF Allowable Loads: Lateral (133/160) F_2	Uplift Load with 8dx1½" Nails (133 & 160)	Code Ref.
H1	18	6-8dx1½	4-8d	—	490	585	485	165	455	400	400	415	140	370	2, 40, 82, 121, 140
H2	18	5-8d	—	5-8d	335	335	—	—	335	230	230	—	—	230	
H2.5	18	5-8d	5-8d	—	415	415	150	150	415	365	365	130	130	365	
H2.5A	18	5-8d	5-8d	—	600	600	110	110	480	520	535	110	110	480	122
H2.5T	18	5-8d	5-8d	—	545	545	135	145	425	545	545	135	145	425	
H3	18	4-8d	4-8d	—	455	455	125	160	415	320	320	105	140	290	2, 40, 82, 121, 140
H4	20	4-8d	4-8d	—	360	360	165	160	360	235	235	140	135	235	2, 40, 121, 140
H5	18	4-8d	4-8d	—	455	465	115	200	455	265	265	100	170	265	2, 40, 82, 121, 140
H5A	18	3-8d	3-8d	—	350	420	115	180	290	245	245	100	120	170	10
H6	16	—	8-8d	8-8d	915	950	650	—	—	785	820	560	—	—	5, 41, 121,140
H7Z	16	4-8d	2-8d	8-8d	930	985	400	—	—	800	845	345	—	—	
H8	18	5-10dx1½	5-10dx1½	—	620	745	75	—	—	530	565	75	—	—	125
H9KT	18	4-SDS¼x1½	5-SDS¼x1½	—	875	875	680	125	—	755	755	680	125	—	170
H10	18	8-8dx1½	8-8dx1½	—	905	990	585	525	—	780	850	505	450	—	9, 121
H10R	18	8-8dx1½	8-8dx1½	—	905	990	585	525	—	780	850	505	450	—	
H10-2	18	6-10d	6-10d	—	760	760	455	395	—	655	655	390	340	—	6, 121
H11Z	18	6-16dx2½	6-16dx2½	—	830	830	525	760	—	715	715	450	655	—	170
H14	18	[1] 12-8dx1½	13-8d	—	1350	1350	515	265	—	1050	1050	480	245	—	125
		[2] 12-8dx1½	15-8d	—	1350	1350	515	265	—	1050	1050	480	245	—	

1. Loads have been increased 33% and 60% for earthquake or wind loading with no further increase allowed, reduce where other loads govern.
2. Allowable loads are for one anchor. A minimum rafter thickness of 2½" must be used when framing anchors are installed on each side of the joist and on the same side of the plate (except as noted).
3. Allowable uplift load for stud to bottom plate installation is 400 lbs (H2.5); 390 lbs (H2.5A); 360 lbs (H4) and 310 lbs (H8).
4. Allowable loads in the F_1 direction are not intended to replace diaphragm boundary members or prevent cross grain bending of the truss or rafter members. Additional shear transfer elements [illegible]
5. Hurricane Ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For [illegible] Continuous Load Path, connections [illegible] must be on same side of the wall.
6. Southern Pine allowable loads for H14: 1465 lbs *(133/160)*, 560 lbs *(F_1 Lateral 133/160)* and 285 lbs *(F_2 Lateral 133/160)*.
7. Select [illegible] T-NAIL BEARING for selected hurricane ties allowable bearing enhancement loads.
8. NAILS: 16 (0.162" dia. x 2½" long, 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1½" long, 3[illegible] = 0.131" dia. x 2½" long, 8dx1½ = 0.131" dia. x 1½" long. See page 16-17 for other nail sizes and configurations.

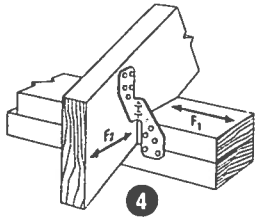


1 H1 Installation

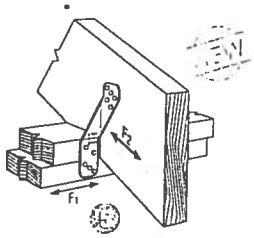

2 H2 Installation



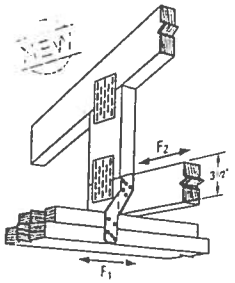
3 H2.5 Installation
(Nails into both top plates)

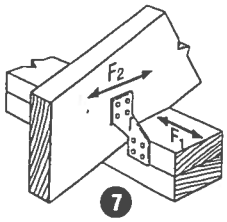


4 H2.5A Installation
(Nails into both top plates)

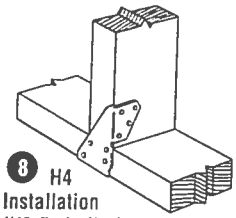


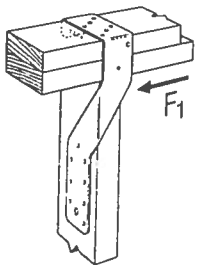
H2.5T Installation
(Nails into both top plates)



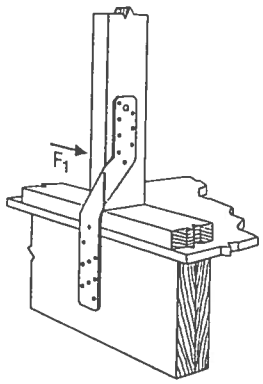


7 H3 Installation
(Nails into upper top plate)

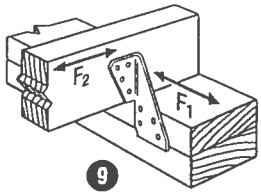

8 H4 Installation
(H2.5 similar)
(see footnote 3, page 142)



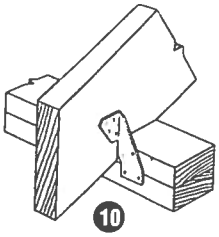
12 H6 Stud to Top Plate Installation

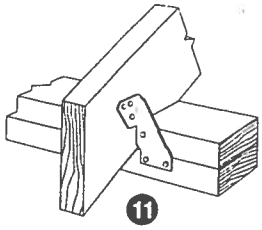


13 H6 Stud to Band Joist Installation



9 H4 Installation
(Nails into upper top plate)


10 H5 Installation
(Nails into both top plates)


11 H5A Installation
(Nails into both top plates)

AB/ABA/ABE/ABU *Adjustable and Standoff Post Bases*

Additional standoff bases are on page 187.

The AB is an adjustable post base which offers moisture protection and finished hardware appearance.

Post Bases provide tested capacity. They feature 1" standoff height above concrete floors, code-required when supporting permanent structures that are exposed to the weather or water splash, or in basements. They reduce the potential for decay at post and column ends.

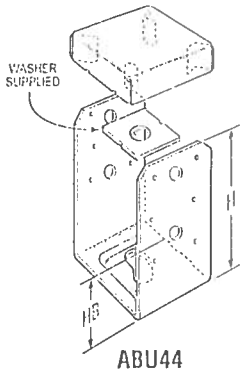
MATERIAL: AB--12 ga plates, 16 ga base cover; all others--see table.

FINISH: Galvanized. Some products available in Z-MAX; see Corrosion-Resistance, page 6-7.

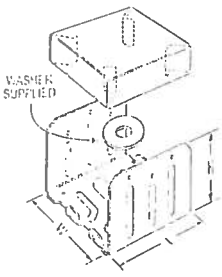
INSTALLATION: • Use all specified fasteners. See General Notes.

- Post bases do not provide adequate resistance to prevent members from rotating about the base and therefore are not recommended for non top-supported installations *(such as fences or unbraced carports)*.
- AB supplied as shown; position the post, secure the easy-access nut, then bend up the fourth side.
- AB, ABA, ABE and ABU—for pre-pour installed anchors. For epoxy or wedge anchors, select and install according to anchor manufacturer's recommendations; anchor diameter shown in table. Install required washer, which is not included for ABAs.
- See Simpson Anchor Systems for tested, load-rated anchors and request T-ANCHORSPEC for more information.

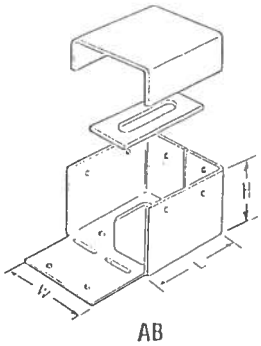
CODES: See page 12 for Code Listing Key Chart.



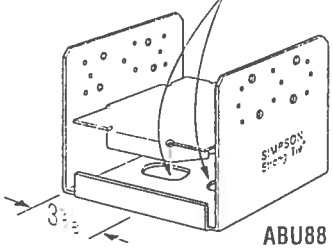
ABU44
(other sizes similar)



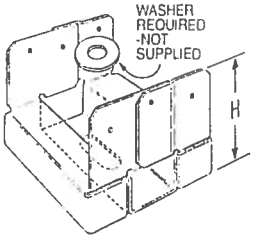
ABE44
ABE46,46R,66 and 66R supplied with washer.



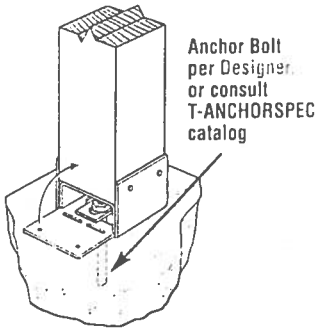
AB



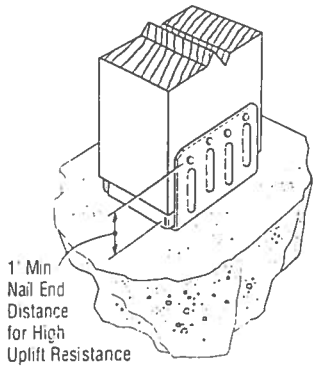
ABU88



ABA44
(other sizes similar)
U.S. Patent 5,333,435



Typical AB Installation



Typical ABE46R Installation for rough lumber *(ABE similar)*

Available with additional corrosion protection. Check with factory.

Model No.	Dimensions W	L	H	Anchor Dia.	Fasteners	Allowable Download (100)	Code Ref.
AB44	3 9/16	3 9/16	2 1/4	1/2	8-10d	4065	2, 40, 82, 121
AB44R	4	4 1/16	2 9/16	1/2	8-10d	4065	
AB46	3 9/16	5 3/8	3	1/2	8-10d	4165	
AB46R	4	6	2 13/16	1/2	8-10d	4165	
AB66	5 1/2	5 9/16	3	1/2	8-10d	5335	
AB66R	6	6	2 13/16	1/2	8-10d	5335	

1. Loads may not be increased for short-term loading

Model No.	Nominal Post Size	Material Base (Ga)	Material Strap (Ga)	Dimensions W	L	H	HB[5]	Fasteners Anch. Dia	Fasteners Post Nails	Fasteners Post Machine Bolts Qty	Fasteners Post Machine Bolts Dia	Allowable Loads (DF/SP) Uplift (133) Nails	Uplift (133) Bolts	Uplift (160) Nails	Uplift (160) Bolts	Down (100)	Code Ref.
ABA44	4x4	16	16	3 9/16	3 1/8	3 1/16	—	1/2	6-10d	—	—	555	—	555	—	6000	5, 41, 121
ABE44	4x4	16	16	3 9/16	3 1/2	2 3/4	—	1/2	6-10d	—	—	520	—	520	—	6665	6, 86, 121
ABU44	4x4	16	12	3 9/16	3	5 1/2	1 3/4	5/8	12-16d	2	1/2	2200	1800	2200	2160	6665	8, 36, 91, 121
ABA44R	RGH 4x4	16	16	4 1/16	3 1/8	2 13/16	—	1/2	6-10d	—	—	555	—	555	—	8000	5, 41, 121
ABE44R	RGH 4x4	16	16	4	3 1/2	2 9/16	—	1/2	6-10d	—	—	400	—	400	—	6665	6, 86
ABE46	4x6	12	16	3 9/16	5 7/16	4 1/16	—	5/8	8-16d	—	—	810	—	810	—	7335	9, 121
ABA46	4x6	14	14	3 9/16	5 3/16	3 1/8	—	5/8	8-16d	—	—	700	—	700	—	9435	5, 41, 121
ABU46	4x6	12	12	3 9/16	5	7	2 5/8	5/8	12-16d	2	1/2	2255	2300	2300	2300	10335	8, 36, 91, 121
ABE46R	RGH 4x6	12	16	4 1/16	5 7/16	3 9/16	—	5/8	8-16d	—	—	810	—	810	—	7335	9
ABA46R	RGH 4x6	14	14	4 1/16	5 3/16	2 7/8	—	5/8	8-16d	—	—	700	—	700	—	12000	5, 41, 121
ABA66	6x6	14	14	5 1/2	5 1/4	3 1/8	—	5/8	8-16d	—	—	720	—	720	—	10665	
ABE66	6x6	12	14	5 1/2	5 7/16	3 1/8	—	5/8	8-16d	—	—	900	—	900	—	12000	9, 121
ABU66	6x6	12	10	5 1/2	5	6 1/16	1 3/4	5/8	12-16d	2	1/2	2300	2300	2300	2300	12000	8, 36, 91, 127
ABA66R	RGH 6x6	14	14	6	5 3/16	2 7/8	—	5/8	8-16d	—	—	720	—	720	—	12665	5, 41, 121
ABE66R	RGH 6x6	12	14	6 1/16	5 7/16	2 7/8	—	5/8	8-16d	—	—	900	—	900	—	12000	9
ABU88	8x8	14	12	7 1/2	7	7	—	2-5/8	18-16d	—	—	2320	—	2320	—	24335	8, 36, 127
ABU88R	RGH 8x8	14	12	8	7	7	—	2-5/8[7]	18-16d	—	—	2320	—	2320	—	24335	8, 36

1. Uplift loads have been increased for earthquake or wind load durations with no further increase allowed, reduce where other load durations govern.
2. Downloads may not be increased for short-term loading
3. Specifier to design concrete for shear capacity
4. ABU88 and ABU88R may be installed with 8-SDS¼X3 wood screws for the same table load
5. For higher downloads, solidly pack grout under 1" standoff plate before installing into concrete. Base download on column or concrete, according to the code
6. HB dimension is the distance from the bottom of the post up to the first bolt hole
7. NAILS 16d = 0.162" dia. x 3½" long. 10d = 0.148" dia x 3" long. See page 16-17 for other nail sizes and information.

CCQ/ECCQ Column Caps ✓

This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

This design uses SDS screws to provide faster installation and [illegible]. The SDS screws provide for a lower profile compared to standard through bolts.

MATERIAL: CCQ3, ECCQ3, CCQ4, ECCQ4, CCQ6, ECCQ6—7 gauge; all others—3 gauge.

FINISH: Simpson gray paint, available in HDG with HDG screws.

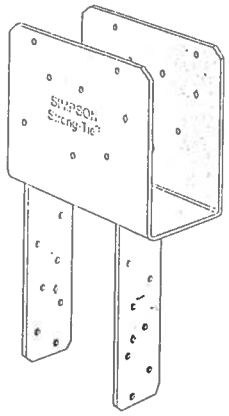
INSTALLATION: • Fasteners provided. See General Notes.

- Install Simpson's SDS¼x2½ wood screws, which are provided with the column cap. *(Lag screws will not achieve the same load.)*

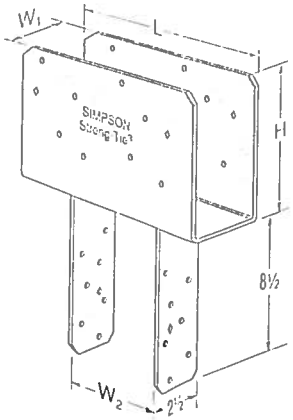
OPTIONS:

- Straps may be rotated 90° where W1 ≥ W2. For end conditions, specify ECCQ. Loads do not apply to CCQQ and ECCQQ. [illegible]

CODES: See page 12 for Code Listing Key Chart.



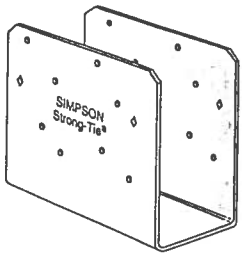
ECCQ46SDS2.5



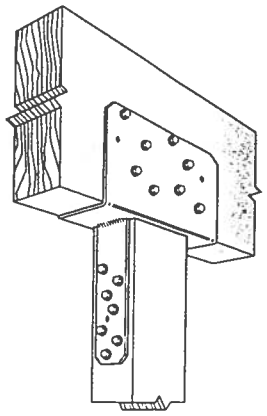
CCQ46SDS2.5

Available with additional corrosion protection. Check with factory.

Model No.	Beam Width	Dimensions W1	W2	L CCQ	L ECCQ	H	No. of[9] SDS¼"x2½" Screws Beam	Post	Allowable Loads CCQ Uplift (133)	(160)	Down (100)	ECCQ Uplift (133/160)	Down (100)	Code Ref.
CCQ3-4SDS2.5	3⅛	3¼	3⅝	11	8½	7	16	14	5680	5680	19250	3695	6125	46, 107, 124
CCQ3-6SDS2.5	3⅛	3¼	5½	11	8½	7	16	14	5680	5680	19250	3695	9625	
CCQ44SDS2.5	4x	3⅝	3⅝	11	8½	7	16	14	5680	5680	24065	4040	7655	
CCQ46SDS2.5	4x	3⅝	5½	11	8½	7	16	14	5955	7145	24065	4040	12030	
CCQ48SDS2.5	4x	3⅝	7½	11	8½	7	16	14	5955	7145	24065	4040	16405	
CCQ5-4SDS2.5	5⅛	5¼	3⅝	11	8½	7	16	14	5680	5680	31570	4040	10045	
CCQ5-6SDS2.5	5⅛	5¼	5½	11	8½	7	16	14	6270	7245	31570	5535	15785	
CCQ5-8SDS2.5	5⅛	5¼	7½	11	8½	7	16	14	6270	7245	31570	5535	21525	
CCQ64SDS2.5	6x	5½	3⅝	11	8½	7	16	14	5680	5680	37815	4040	12030	
CCQ66SDS2.5	6x	5½	5½	11	8½	7	16	14	5955	7145	37815	4040	18905	
CCQ68SDS2.5	6x	5½	7½	11	8½	7	16	14	5955	7145	37815	4040	25780	
CCQ6-7.13SDS2.5	6x	5½	7⅛	11	8½	7	16	14	5955	7145	37815	4040	24490	160
CCQ74SDS2.5	6¾	6⅞	3⅝	11	8½	7	16	14	5680	5680	41580	4040	13230	46, 107, 124
CCQ76SDS2.5	6¾	6⅞	5½	11	8½	7	16	14	6270	7245	41580	5535	20790	
CCQ77SDS2.5	6¾	6⅞	6⅞	11	8½	7	16	14	6270	7245	41580	5535	25515	
CCQ78SDS2.5	6¾	6⅞	7½	11	8½	7	16	14	6270	7245	41580	5535	28350	
CCQ7.1-4SDS2.5	7	7⅛	3⅝	11	8½	7	16	14	5680	5680	57750	4040	19030	160
CCQ7.1-6SDS2.5	7	7⅛	5½	11	8½	7	16	14	6270	7245	57750	5535	28875	
CCQ7.1-7.1SDS2.5	7	7⅛	7⅛	11	8½	7	16	14	6270	7245	57750	5535	37405	
CCQ7.1-8SDS2.5	7	7⅛	7½	11	8½	7	16	14	6270	7245	57750	5535	39375	
CCQ86SDS2.5	8x	7½	5½	11	8½	7	16	14	6270	7245	51565	5535	25780	
CCQ88SDS2.5	8x	7½	7½	11	8½	7	16	14	6270	7245	51565	5535	35155	
CCQ96SDS2.5	8¾	8⅞	5½	11	8½	7	16	14	6270	7245	53900	5535	26950	
CCQ98SDS2.5	8¾	8⅞	7½	11	8½	7	16	14	6270	7245	53900	5535	36750	
CCQ106SDS2.5	10x	9½	5½	11	8½	7	16	14	6270	7245	65315	5535	32655	



CCQQ4-SDS2.5



Typical CCQ46SDS2.5 Installation

1 Downloads are determined using Fc⊥ equal to: 560 psi for glulam sizes and 625 psi for all others; reduce where end bearing or other criteria are limiting
2. Spliced conditions must be detailed by the to transfer tension loads between spliced members by means other than the column cap.
3. Uplift loads do not apply to splice conditions.
4 Post sides are assumed to lie in the same vertical plane as the beam sides
5 Loads may not be increased for short-term loading
6 Uplift loads have been increased for earthquake or wind no further increase allowed; reduce where other govern
7 ECCQ downloads assume a post of W1 x W2
8 When using structural composite lumber columns, screws must be applied to the wide face of the column
9 ECCQ uses 14-SDS screws into the beam and 14-SDS screws into the post
10 Beam depth must be greater than 7".

WIND LOAD DESIGN PER 2004 FBC (1609.6)

SINGLE STORY BUILDING

BUILDING DIMENSIONS:

L =	56	FEET			
W =	74	FEET			
EAVE =	8.08	FEET			
PITCH =	7	/12	=	30.3	DEG.
O'HANG =	1.5	FEET			
RIDGE =	29.66333	FEET			
MEAN RF =	18.87167	FEET			

WIND EXPOSURE:

VELOCITY =	110	MPH
I =	1.00	(IMPORTANCE FACTOR)
EXPOSURE =	B	
ADJUSTMENT	1.00	(PER TABLE 1609.6D)

MWFRS PRESSURE PER TABLE 1609.6A (BASE PRESSURE W/O ADJUSTMENT)
(PRESSURES IN PSF)

TRANSVERSE WIND DIRECTION

	END ZONE		INTERIOR ZONE	
HORIZONTAL LOADS				
	WALL	ROOF	WALL	ROOF
	21.6	14.8	17.2	11.8
VERTICAL LOADS				
	WINDWD	LEEWD	WINDWD	LEEWD
	8.3	-13.1	7.2	-11.3
O'HANG	-7.6		-8.7	

LONGITUDINAL WIND DIRECTION

	END ZONE		INTERIOR ZONE	
HORIZONTAL LOADS				
	WALL	ROOF	WALL	ROOF
	19.2	-10.0	12.7	-5.9
VERTICAL LOADS				
	WINDWD	LEEWD	WINDWD	LEEWD
	-23.1	-13.1	-16.0	-10.1
O'HANG	-32.3		-25.3	

CALCULATE EDGE STRIPS:

7.4	FEET	(10% OF LEAST DIM)		
3.232	FEET	(40% OF EAVE)		
			Least =	3.232 FEET
2.96	FEET	(4% OF LEAST DIM)		
3	FEET	(3 FEET)		
			Max =	3 FEET

A =	3.232	FEET
2A =	6.464	FEET

HORIZONTAL TRANSVERSE LOAD

ROOF	15099	LBS.

WALL 8242 LBS.

LONGITUDINAL TRANSVERSE LOAD
ROOF 10300 LBS.
WALL 8273 LBS.

ROOF DIAPHRAM 7/16" OSB
TRANSVERSE 8d COMMON OR 0.131" DIA. P-NAIL

				6"/12"	4"/12"	3"/12"	
TOTAL DRAGSTRUT LENGTH =			124 FEET				
LOAD RESISTED =	15099	ROOF		357	476	707	PINE
	4121	WALL		OK	OK	OK	
	19220	TOTAL					
	155.0	*PLF*					

LONGITUDINAL

				6"/12"	4"/12"	3"/12"	
TOTAL DRAGSTRUT LENGTH =			112 FEET				
LOAD RESISTED =	10300	ROOF		357	476	707	PINE
	4136	WALL		OK	OK	OK	
	14437	TOTAL					
	128.9	*PLF*					

SHEARWALLS 7/16" OSB
TRANSVERSE 8d COMMON OR 0.131" DIA. P-NAIL

				6"/12"	4"/12"	3"/12"	
TOTAL SHEARWALL LENGTH =			60 FEET				
LOAD RESISTED =	15099	ROOF		364	532	686	PINE
	4121	WALL		OK	OK	OK	
	19220	TOTAL					
	320.3	*PLF*					
				298	436	563	SPRUCE
				N.G.	OK	OK	

LONGITUDINAL

				6"/12"	4"/12"	3"/12"	
TOTAL SHEARWALL LENGTH =			45 FEET				
LOAD RESISTED =	10300	ROOF		364	532	686	PINE
	4136	WALL		OK	OK	OK	
	14437	TOTAL					
	320.8	*PLF*					
				298	436	563	SPRUCE
				N.G.	OK	OK	

WALL TENSION TIE USING SHEATHING

WALL TO WALL	O'HANG		UPLIFT LOAD		3/8" MINIMUM SHEATHING 8d COMMON NAIL SPACING SPRUCE	PINE	
35	1.5		213	PLF	5.3	6.6	INCHES

ANCHOR BOLT SPACING

WALL TO WALL	UPLIFT LOAD	1634 2" ROUND WASHER		3173 3" SQ WASHER	
35	213	92.1	IN. MAX	178.8	IN. MAX

SHEARWALL ANCHORAGE			1634 2" ROUND WASHER	3173 3" SQ WASHER
TRANSVERSE				
CHORD FORCE =	2588	LBS		
ANCHOR BOLT =	48	INCHES O.C.		
REQUIRED FORCE =	3014	LBS	NO GOOD	OK
LONGITUDINAL				
CHORD FORCE =	2592	LBS		
REQUIRED FORCE =	2592	LBS	NO GOOD	OK

WALL STUD DESIGN

DESIGN PRESSURES:	22.6	PSF	INTERIOR ZONE
	27.2	PSF	END ZONE

INTERIOR ZONE STUDS

STUD LENGTH FEET	SPACING INCHES	INTERIOR MOMENT IN-#		#2 SPF 2X4	#2 PINE 2X4	#2 SPF 2X6	#2 PINE 2X6	#2 PINE 3X4
			Sx	3.06	3.06	7.56	7.56	5.11
			Fb allow	2415	2760	2093	2300	2760
8	16	2893		945	945	383	383	566
				OK	OK	OK	OK	OK
0	0	0		0	0	0	0	0
				OK	OK	OK	OK	OK
0	0	0		0	0	0	0	0
				OK	OK	OK	OK	OK
0	0	0		0	0	0	0	0
				OK	OK	OK	OK	OK

END ZONE STUDS WITHIN	*3.232 FEET OF CORNERS*	END ZONE MOMENT IN-#					
8	16	3482	1138 OK	1138 OK	461 OK	461 OK	681 OK
0	0	0	0 OK	0 OK	0 OK	0 OK	0 OK
0	0	0	0 OK	0 OK	0 OK	0 OK	0 OK
0	0	0	0 OK	0 OK	0 OK	0 OK	0 OK

SHEARWALL CAPACITIES PER 2004 FBC

NAIL = 8d COMMON OR 0.131" POWER NAIL
SHEATHING = 7/16" OSB

6"/12"	4"/12"	3"/12"	
260	380	490	Per Table 2306.4.1, using 15/32" sheathing as allowed by para 2306.4.1
0.82	0.82	0.82	1.00 = Pine, 0.82 = SPF
1.4	1.4	1.4	Increase per para 2306.4.1
298	436	563	

SHEARWALL CAPACITIES PER 2001 SBC

NAIL = 8d COMMON OR 0.131" POWER NAIL
SHEATHING = 7/16" OSB

6"/12"	4"/12"	3"/12"	
260	380	490	Per Table 2310.2B, using 15/32" sheathing as allowed by para 2310.4.6
1	1	1	1.00 = Pine, 0.82 = SPF

1.4	1.4	1.4	Increase per para 2313.2.5
364	532	686	

Post Uplift Design

Truss Uplift	193	Pounds per truss at 24" on center		
Post Spacing	12.5	Feet		
Uplift per post	1206.25	Pounds		

Post Base	Allowable		Select ?	Fasteners
Simpson ABE44	520	No Good		1/2" anchor bolt and (6) 10d common nails
Simpson ABU44	2200	OK		5/8" anchor bolt and (12) 16d common nails
Simpson ABE66	900	No Good		5/8" anchor bolt and (8) 16d common nails
Simpson ABU66	2300	OK	X	5/8" anchor bolt and (12) 16d common nails
Simpson CBSQ44-SDS2	5335	OK		Imbeded into concrete and (14) Simpson SDS 1/4x2" screws
Simpson CBSQ66-SDS2	6855	OK		Imbeded into concrete and (14) Simpson SDS 1/4x2" screws

Post Cap	Allowable		Select ?	Fasteners
Simpson BC4 (4x4 post, 4" beam)	980	No Good		(6) 16d common nails
Simpson BC6 (6x6 post, 6" beam)	1050	No Good		(12) 16d common nails
Simpson CCQ44SDS2.5 (4x4 post, 4" beam)	5680	OK		Simpson SDS 1/4x2" screws - (16) to beam - (14) to post
Simpson ECCQ44SDS2.5 END CONDITION (4x4 post, 4" beam)	4040	OK		Simpson SDS 1/4x2" screws - (16) to beam - (14) to post
Simpson CCQ66SDS2.5 (6x6 post, 6" beam)	7145	OK		Simpson SDS 1/4x2" screws - (16) to beam - (14) to post
Simpson ECCQ66SDS2.5 END CONDITION (6x6 post, 6" beam)	4040	OK		Simpson SDS 1/4x2" screws - (16) to beam - (14) to post
Simpson CCQ46SDS2.5 (6x6 post, 4" beam)	7145	OK	X	Simpson SDS 1/4x2" screws - (16) to beam - (14) to post
Simpson ECCQ46SDS2.5 END CONDITION (6x6 post, 4" beam)	4040	OK	X	Simpson SDS 1/4x2" screws - (16) to beam - (14) to post

Sputo and Lammert Engineering, LLC
10 SW 1st Avenue
Gainesville, FL 32601
Phone 352-378-0448
CA 6855

Title :
Dsgnr:
Description :

Job #
Date: 1:14PM, 6 FEB 06

Scope :

General Timber Beam

Description Garage Beam

General Information

Code Ref: 1997/2001 NDS, 2000/2003 IBC, 2003 NFPA 5000. Base allowables are user defined

Section Name	3-2x12	Center Span	16.33 ft	.....Lu	0.00 ft
Beam Width	4.500 in	Left Cantilever	ft	.....Lu	0.00 ft
Beam Depth	11.250 in	Right Cantilever	ft	.....Lu	0.00 ft
Member Type	Sawn	Southern Pine, No.2 2 -4 Thick, 12 Wid			
		Fb Base Allow	975.0 psi		
Load Dur. Factor	1.250	Fv Allow	175.0 psi		
Beam End Fixity	Pin-Pin	Fc Allow	565.0 psi		
		E	1,600.0 ksi		

Full Length Uniform Loads

Center	DL	234.00 #/ft	LL	#/ft
Left Cantilever	DL	#/ft	LL	#/ft
Right Cantilever	DL	#/ft	LL	#/ft

Summary

Beam Design OK

Span= 16.33ft, Beam Width = 4.500in x Depth = 11.25in, Ends are Pin-Pin

Max Stress Ratio	0.809 : 1		
Maximum Moment	7.8 k-ft	Maximum Shear * 1.5	2.5 k
Allowable	9.6 k-ft	Allowable	11.1 k

Max. Positive Moment	7.80 k-ft	at	8.165 ft	Shear:	@ Left	1.91 k
Max. Negative Moment	0.00 k-ft	at	0.000 ft		@ Right	1.91 k
Max @ Left Support	0.00 k-ft			Camber:	@ Left	0.000 in
Max @ Right Support	0.00 k-ft				@ Center	0.657 in
					@ Right	0.000 in
Max. M allow	9.64		Reactions...			
fb 986.08 psi	fv 50.27 psi		Left DL	1.91 k	Max	1.91 k
Fb 1,218.75 psi	Fv 218.75 psi		Right DL	1.91 k	Max	1.91 k

Deflections

Center Span...	Dead Load	Total Load	Left Cantilever...	Dead Load	Total Load
Deflection	-0.438 in	-0.438 in	Deflection	0.000 in	0.000 in
...Location	8.165 ft	8.165 ft	...Length/Defl	0.0	0.0
...Length/Defl	447.1	447.14	**Right Cantilever...**		
Camber (using 1.5 * D.L. Defl) ...			Deflection	0.000 in	0.000 in
@ Center	0.657 in		...Length/Defl	0.0	0.0
@ Left	0.000 in				
@ Right	0.000 in				

Stress Calcs

Bending Analysis

Ck	29.385	Le	0.000 ft	Sxx	94.922 in3	Area	50.625 in2
Cf	1.000	Rb	0.000	Cl	0.000		

	Max Moment	Sxx Req'd	Allowable fb
@ Center	7.80 k-ft	76.80 in3	1,218.75 psi
@ Left Support	0.00 k-ft	0.00 in3	1,218.75 psi
@ Right Support	0.00 k-ft	0.00 in3	1,218.75 psi

Shear Analysis	@ Left Support	@ Right Support
Design Shear	2.54 k	2.54 k
Area Required	11.634 in2	11.634 in2
Fv: Allowable	218.75 psi	218.75 psi

Bearing @ Supports

Max. Left Reaction	1.91 k	Bearing Length Req'd	0.751 in
Max. Right Reaction	1.91 k	Bearing Length Req'd	0.751 in

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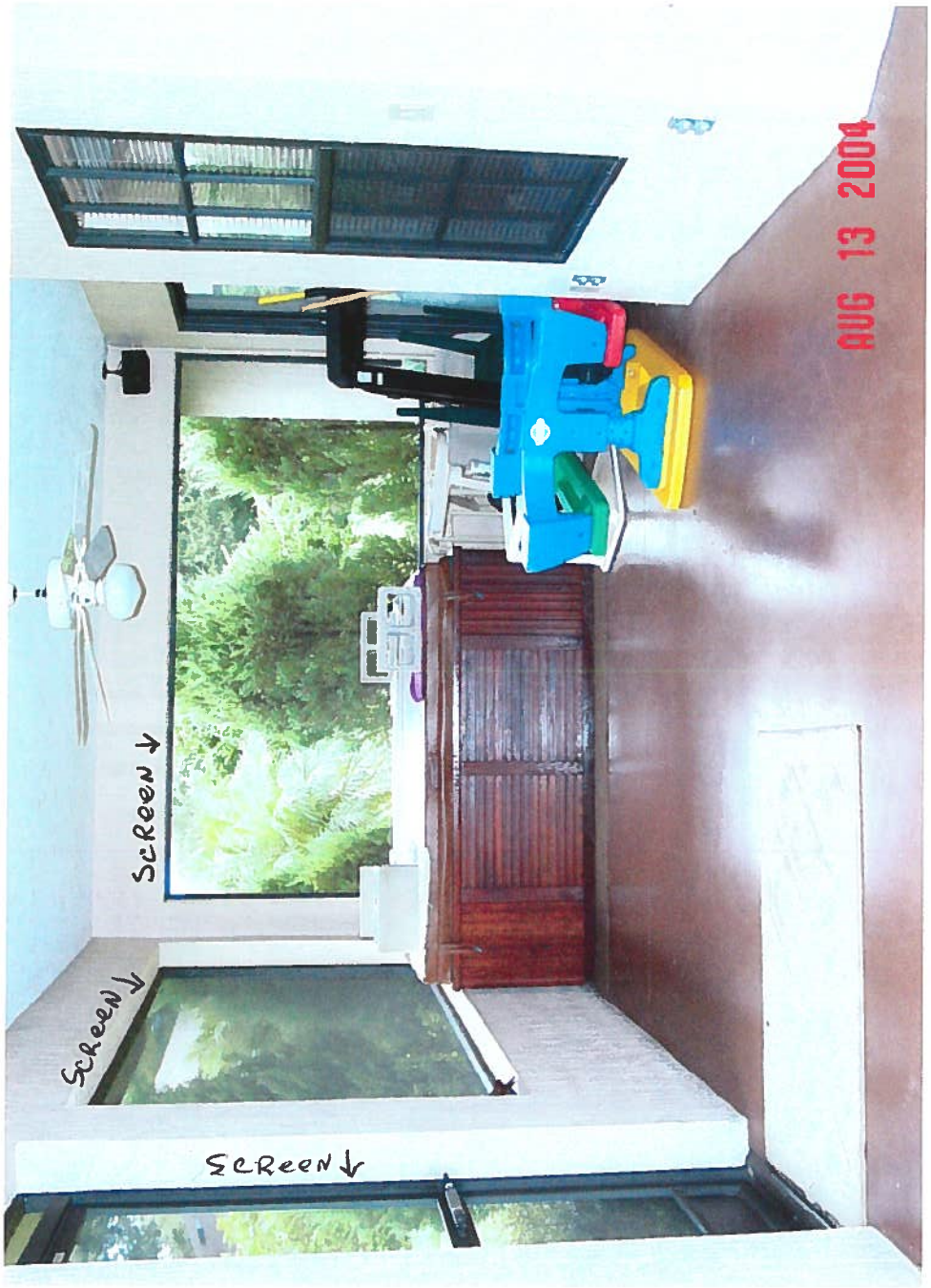
Scope :

Description Garage Beam

Query Values

M, V, & D @ Specified Locations		Moment	Shear	Deflection
@ Center Span Location =	0.00 ft	0.00 k-ft	1.91 k	0.0000 in
@ Right Cant. Location =	0.00 ft	0.00 k-ft	0.00 k	0.0000 in
@ Left Cant. Location =	0.00 ft	0.00 k-ft	0.00 k	0.0000 in

2. **All elevation drawings shown on plans (pages 3 & 4) show a correct roof pitch of 7/12.**

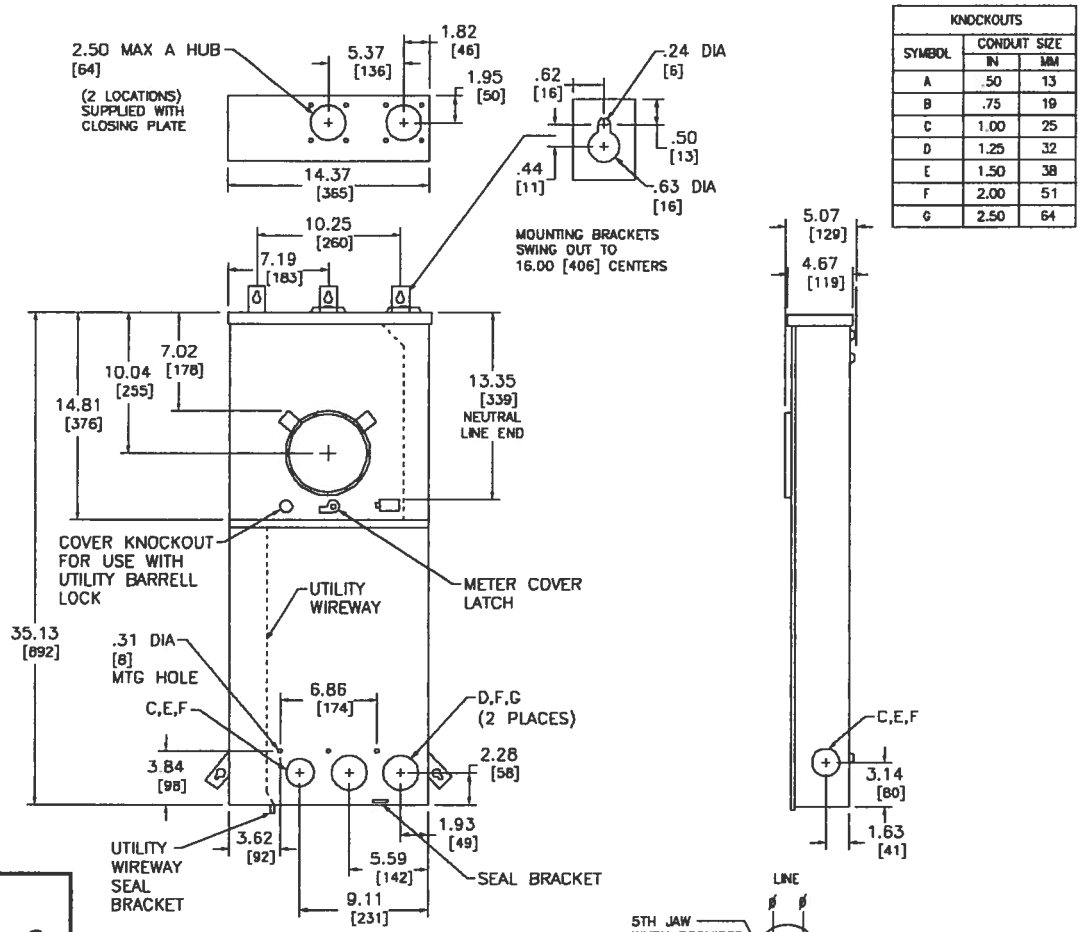


#3. Glazing windows. This new house is the same as our last house. Please notice in the supplied picture that the hot tub/spa is a stand alone or portable and can be moved. The hot tub is on our screened in porch and entrance is more than 6 feet from any windows or glass.

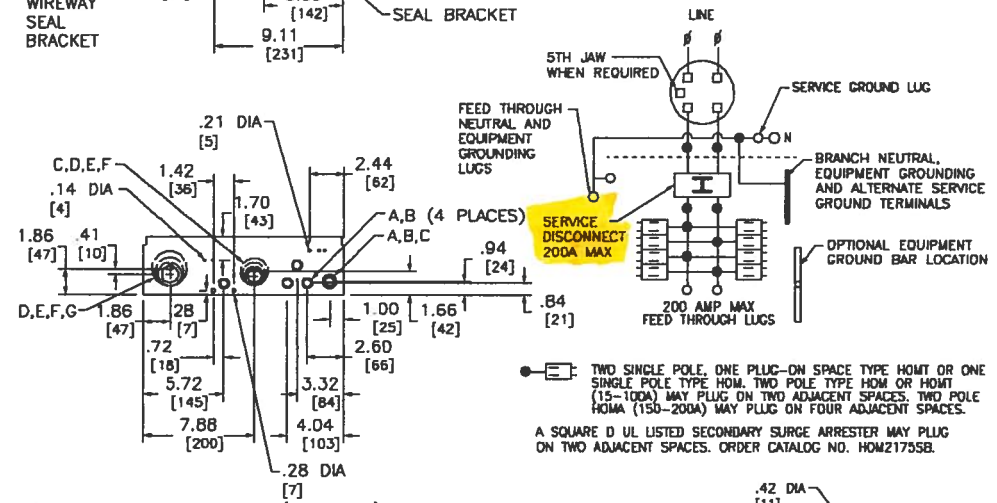
THIS ITEM SHOULD BE ADDRESSED IN THE SPUTO REVISED WIND LOAD ANALYSIS SHOWN IN ITEM NUMBER 1.

THIS WILL BE INSTALLED OUTSIDE THE HOUSE

NOVEMBER 2003



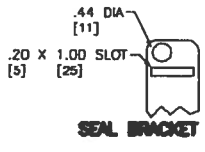
KNOCKOUTS		
SYMBOL	CONDUIT SIZE IN	MM
A	.50	13
B	.75	19
C	1.00	25
D	1.25	32
E	1.50	38
F	2.00	51
G	2.50	64



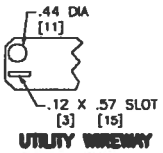
TWO SINGLE POLE, ONE PLUG-ON SPACE TYPE HOMT OR ONE SINGLE POLE TYPE HOM. TWO POLE TYPE HOM OR HOMT (15-100A) MAY PLUG ON TWO ADJACENT SPACES. TWO POLE HOMA (150-200A) MAY PLUG ON FOUR ADJACENT SPACES.

A SQUARE D UL LISTED SECONDARY SURGE ARRESTER MAY PLUG ON TWO ADJACENT SPACES. ORDER CATALOG NO. HOMZ1755B.

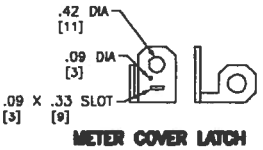
NOTES:
FINISH - GRAY BAKED ENAMEL POWDER COAT PAINT OVER CLEANED GALVANNEALED STEEL.
MAXIMUM SYSTEM VOLTAGE:
120/240VAC, 1Ø3W, 50-60HZ
208Y/120VAC, 1Ø3W, 50-60HZ
(FROM A 3Ø4W SYSTEM)
UL LISTED - FILE E-6294 VOL M
SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT.
SUITABLE FOR UNDERGROUND/ OVERHEAD SERVICE.



SEAL BRACKET



UTILITY WIREWAY SEAL BRACKET



METER COVER LATCH

DUAL DIMENSIONS: INCHES MILLIMETERS

AMPERE RATING	FACTORY INSTALLED BYPASS TYPE	SHORT CIRCUIT CURRENT RATING	CATALOG NUMBER	SERIES	SPACES	MAXIMUM NUMBER OF SINGLE POLE HOM CIRCUITS	LINE SIDE PHASE & NEUTRAL LUGS AWG/KCMIL	SERVICE GROUND LUG	FEED THROUGH LUGS PHASE & NEUTRAL AWG/KCMIL
100	HORN	22K	RC816F100CH	M01	8	16	#6-350 CU/AL	#14-2/0 CU #12/2/0 AL	#4-250 CU/AL
125	HORN		RC816F125CH						
150	NONE		RC816F150C						
	HORN		RC816F150CH						
200	NONE		RC816F200C						
	HORN		RC816F200CH						

COMBINATION SERVICE ENTRANCE DEVICES
RINGLESS METER MAIN
RAINPROOF NEMA TYPE 3R ENCLOSURE
SURFACE ONLY

DWG# 1994

SQUARE D
Schneider Electric

1994

Gale Insulation
13450 N W 104th Terrace, Alachua, FL,
Tel: (352) 332-0401, Fax: (352) 332-0402

WORK AGREEMENT

TO: RON OLSZAK	**RE:** OLSR-IN-OLSZAK RES.	
Address: 200 SW BAY PLACE, ***** COD ***** FORT WHITE , FL, 32038	**Address:** 200 SW BAY PLACE FORT WHITE, FL, 32038	
Contact:	**Date:** 02/15/2006	**Expiration Date:** 03/17/2006
Tel:	**Estimator:** Mark Houghtaling	[redacted]
Fax:		P 34A3967-1

Scope of Work (the "Work") to be performed:

Draft stop, fire block, fire stop (UBC 708.2.1 et seq., formerly 2516(f), or locally adopted equivalent), fire rated caulking are not included within Contractor's scope of work unless specifically listed below.

WARNING: If cellulose is to be applied with a wet application you must allow adequate time for it to cure and dry before installing drywall or other materials. The adequate time required varies depending upon climate and weather. Be sure to schedule your trades accordingly.

Contractor is willing to furnish to you all material and labor required for the application of:

Model Name: _____ ***Permit #:*** _____ ***Plan #:*** _____

Work Area	Product	Notes
Ceiling Area	Kraft Faced, R-30, 24"	
Porch	Kraft Faced, R-30, 24"	Back Porch
	Foam	
	High Heat Caulk	
Knee Wall	Kraft Faced, R-19, 23"	And In Skylight
Exterior Walls	Unfaced, R-19, 15"	
Sound Walls	Kraft Faced, R-13, 15"	
Garage Common Wall	Kraft Faced, R-19, 15"	
	Baffles - 33" Cardboard	

Base Price: [redacted]

Notes:
IF COCOON INSULATION IS USED IN THE WALLS & CEILING TAKE $2074.00 OFF OF THE PRICE. x R.O.
for the total of [redacted]

READ THE LAST PAGE OF THIS AGREEMENT. IT CONTAINS IMPORTANT PROVISIONS AND IS PART OF THIS AGREEMENT.

TERMS OF PAYMENT: Payment in full due as stated on invoice regardless of any payment arrangements you have with third parties.
ACCEPTANCE: Contractor may change and/or withdraw this agreement if Contractor does not receive your signed acceptance within 10 business days after the date listed above.
PRICING: Any additional work performed is subject to Contractor's then current pricing (unless Contractor otherwise agrees in writing) and to these terms and conditions. The prices above shall remain firm for 90 days after the date You sign this agreement. If performance of this agreement extends beyond those 90 days, You agree to pay Contractor's then current pricing for the Work performed after those 90 days.

CUSTOMER:
Date 2/21/06
Company Name _____
By: _____
SIGNATURE TITLE

CONTRACTOR
By: M. Houghtaling
SIGNATURE TITLE
Mark Houghtaling

THE INFORMATION CONTAINED IN THIS AGREEMENT IS CONFIDENTIAL. NEITHER THIS AGREEMENT NOR ITS TERMS MAY BE DISCLOSED TO THIRD PARTIES.