

DATE 12/22/2005

Columbia County Building Permit

PERMIT 000023988

This Permit Expires One Year From the Date of Issue

APPLICANT GLENN KEEN

PHONE 961.8223

ADDRESS 1534

SW DEKL ROAD

LAKE CITY

FL

32024

OWNER GLENN KEEN/JOHN KEEN/A&B MANAGEMENT

PHONE 386.867.0156

LAKE CITY

FL

32025

ADDRESS 162

SE ANDREWS ROAD

LAKE CITY

PHONE 386.961.8223

JASON ELIXSON

CONTRACTOR GO 90-E TO SR 100, TR TO C-245, TR TO PRICE CREEK LANDING TO A

ROAD, AND ITS THE 2ND LOT ON L.

TYPE DEVELOPMENT

M/H & UTILITY

ESTIMATED COST OF CONSTRUCTION

68700.00

HEATED FLOOR AREA

1374.00

TOTAL AREA

1794.00

HEIGHT

24.00

STORIES

FOUNDATION

WALLS

ROOF PITCH

FLOOR

MAX. HEIGHT

LAND USE & ZONING

A-3

STREET-FRONT

30.00

REAR

25.00

SIDE

25.00

Minimum Set Back Requirements:

FLOOD ZONE

X

DEVELOPMENT PERMIT NO.

PARCEL ID

14-4S-17-08354-114

SUBDIVISION

PRICE CREEK

LOT 14

BLOCK

PHASE

UNIT

TOTAL ACRES

0.50

000000928

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

Driveway Connection

18"X32"MITERED

Septic Tank Number

05-1194

LU & Zoning checked by

BLK

Approved for Issuance

JTH

New Resident

COMMENTS: NOC ON FILE. ONE FOOT ABOVE ROAD. SECTION 2.3.1

FOR BUILDING & ZONING DEPARTMENT ONLY

Temporary Power

Foundation

Monolithic

(Footer/Slab)

Under slab rough-in plumbing

Slab

Sheathing/Nailing

Framing

Rough-in plumbing above slab and below wood floor

Electrical rough-in

Heat & Air Duct

Peri. beam (Lintel)

Permanent power

C.O. Final

Culvert

M/H tie downs, blocking, electricity and plumbing

Pool

Reconnection

Pump pole

Utility Pole

M/H Pole

Travel Trailer

Re-roof

date/app. by date/app. by date/app. by date/app. by date/app. by date/app. by date/app. by date/app. by date/app. by date/app. by date/app. by date/app. by

INSPECTORS OFFICE

J. L. L.

CLERKS OFFICE

CX

FLOOD DEVELOPMENT FEE \$

FLOOD ZONE FEE \$ 25.00

CULVERT FEE \$ 25.00

TOTAL FEE 462.94

MISC. FEES \$

0.00

ZONING CERT. FEE \$ 50.00

FIRE FEE \$ 0.00

WASTE FEE \$

BUILDING PERMIT FEE \$

345.00

CERTIFICATION FEE \$

8.97

SURCHARGE FEE \$

8.97

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."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVENIENCE. PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

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



OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 14-4S-17-08354-114

Building permit No. 000023988

Use Classification SFD & UTILITY

Fire: 35.52

Permit Holder JASON ELIXSON

Waste: 73.50

Owner of Building GLENN KEEN/JOHN KEEN/A&B MANAGEMENT

109.02

Location: 162 SE ANDREWS ROAD, (PRICE CREEK, LOT 14)

Date: 04/19/2006

hally

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)



2005

STATE OF FLORIDA
COUNTY OF COLUMBIA

Owner Builder or Agent (Including Contractor)

Contractor Signature

Contractors License Number.

NOTARY STAMP/SEAL

Commission # DD 476631
Bonded By National Notary Assn.

Commission # DD 476631

Endorsed By National Notary Assn.

~~Notary Signature~~

Notary Signature

Columbia County Building Permit Application

6001 #27

13 ft
massive 12/22/05
Revised 9-23

Revised 9-23-04

For Office Use Only

0512-39

Date Received

By M

Permit #

3257 + 825

Application Approved

Official

Date 19.12.20

amirner

HL 54

Date 12-19-05

Flood Zone X

Permit: 14

Zoning

se Plan M

Map Categories

4.3 **Ans**

Comments

20N

2.3.1

100

100

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

Columbia County Property Appraiser

DB Last Updated: 9/16/2005

Parcel: 14-4S-17-08354-114

Tax Record

Property Card

Interactive GIS Map

Print

Search Result: 1 of 1

Owner & Property Info

Owner's Name	A & B MANAGEMENT LLC &
Site Address	LOT 14 PRICE CREEK
Mailing Address	JOHN W KEEN (JTWRS) 1534 SW DEKLE RD LAKE CITY, FL 32024
Brief Legal	LOT 14 PRICE CREEK LANDING ORB 790-068, 792-2458, WD 1061-402.

Property & Assessment Values

Mkt Land Value	cnt: (1)	\$18,500.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (0)	\$0.00
XFOB Value	cnt: (0)	\$0.00
Total Appraised Value		\$18,500.00
Just Value		\$18,500.00
Class Value		\$0.00
Assessed Value		\$9,500.00
Exempt Value		\$0.00
Total Taxable Value		\$9,500.00

Sales History

Sale Date	10/7/2005	Book/Page	1061/402	Inst. Type	WD	Sale Vimp	V	Sale Qual	U	Sale RCode	04	Sale Price	\$9,000.00
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Building Characteristics

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

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	1.000 LT - (.500AC)	1.00/1.00/1.00/1.00	\$18,500.00	\$18,500.00

Columbia County Property Appraiser

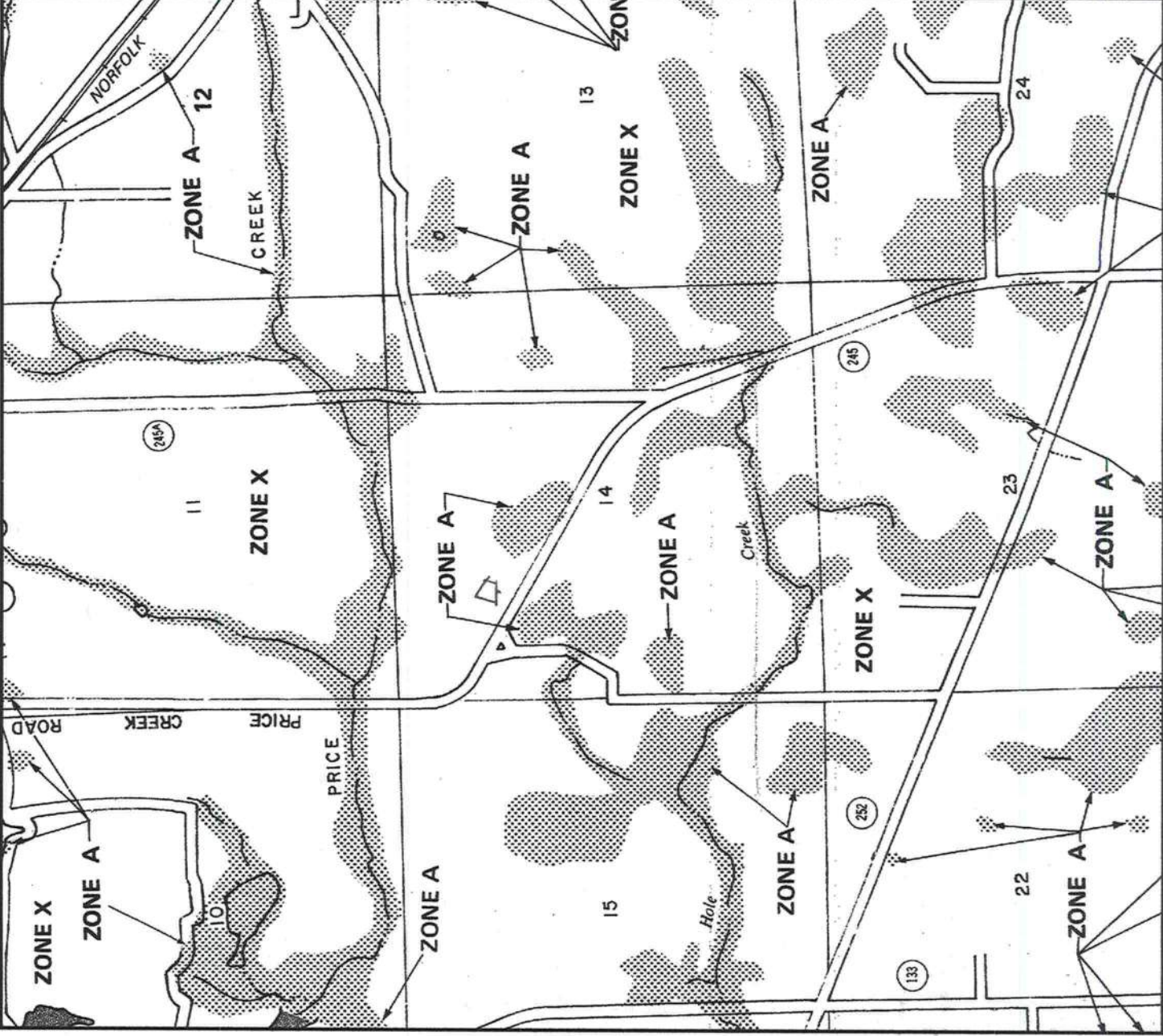
DB Last Updated: 9/16/2005

1 of 1

Disclaimer

http://appraiser.columbiacountyfla.com/GIS/D_SearchResults.asp

12/16/2005



NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

COLUMBIA
COUNTY,
FLORIDA
(UNINCORPORATED AREAS)

PANEL 200 OF 300

PANEL LOCATION

COMMUNITY-PANEL NUMBER
120070 0200 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. Further information about National Flood Insurance Program flood hazard maps is available at www.fema.gov/mit/d.

WARRANTY DEED

This Warranty Deed made and executed the 7th day of October A.D. 2005, by SUBRANDY LIMITED PARTNERSHIP, hereinafter called the grantor, to A & B MANAGEMENT, L.L.C. AND JOHN W. KEEN, EACH AS TO AN UNDIVIDED ONE HALF INTEREST AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP, AND NOT AS TENANTS IN COMMON, Whose post office address is 1534 SW DEKLE ROAD, LAKE CITY, FL 32024, hereinafter called the grantee:

(Wherever 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 corporation)

Witnesseth: That the grantor, for the consideration of the sum of \$ 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, VIZ:

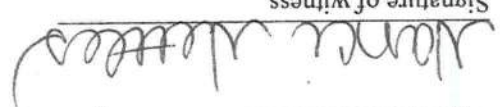
LOT 14, PRICE CREEK LANDING, a subdivision as recorded in Plat Book 5, Pages 98-98A, Columbia County, Florida, and subject to Restrictions recorded in O.R. Book 0628, Pages 0174-0176, and Restrictive Covenants recorded in O.R. Book 0862, Page 0329, Columbia County, Florida, and subject to Power Line Easement.

Together with all the tenements, hereditaments and appurtenances thereto belong or in any-wise appertaining.

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

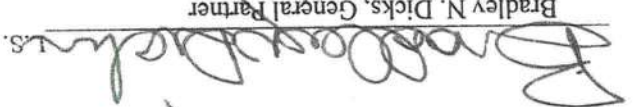
And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby warrants the title said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2000.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

Nancy Nettles
Signature of witness


Amy E. Lee
Signature of witness

State of Florida
County of Columbia


Bradley N. Dicks, General Partner
Subrandy Limited Partnership

Inst: 2005025029 Date: 10/07/2005 Time: 14:26
Doc Stamp-Deed : 63.00
DC, P. DeWitt Cason, Columbia County B: 1061 P: 402

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, personally appeared Bradley N. Dicks, who is personally known to me to be the person described in and who executed the foregoing instrument, who was not required to furnish identification, and he acknowledged before me that he executed the same and who did not take an oath.

WITNESS my hand and official seal in the County and State last aforesaid this 7th day of October, A.D. 2005

Thm, Mottson

(Wherever used herein the terms "Grantor and Grantee" shall mean the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporation)

Witnesseth: That the grantor, for the consideration of the sum of \$ 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, viz:

LOT 14, PRICE CREEK LANDING, a subdivision as recorded in Plat Book 5, Pages 98-98A, Columbia County, Florida, and subject to Restrictions recorded in O.R. Book 0628, Pages 0174-0176, and Restrictive Covenants recorded in O.R. Book 0862, Page 0329, Columbia County, Florida, and subject to Power Line Easement.

Together with all the tenements, hereditaments and appurtenances thereto belong or in any-wise 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 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 31, 2000.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

Signature of witness

Nanci Nettles

Signature of witness

Amy E. Lee

State of Florida

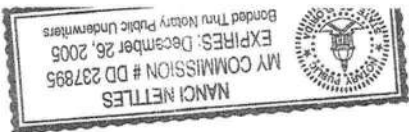
County of Columbia

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, personally appeared Bradley N. Dicks, who is personally known to me to be the person described in and who executed the foregoing instrument, who was not required to furnish identification, and he acknowledged before me that he executed the same and who did not take an oath.

WITNESS my hand and official seal in the County and State last aforesaid this 7TH day of October, A.D. 2005

Notary Public, State of Florida

This instrument prepared by: Bradley N. Dicks
Address: P.O. Box 513 Lake City, FL 32056





STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

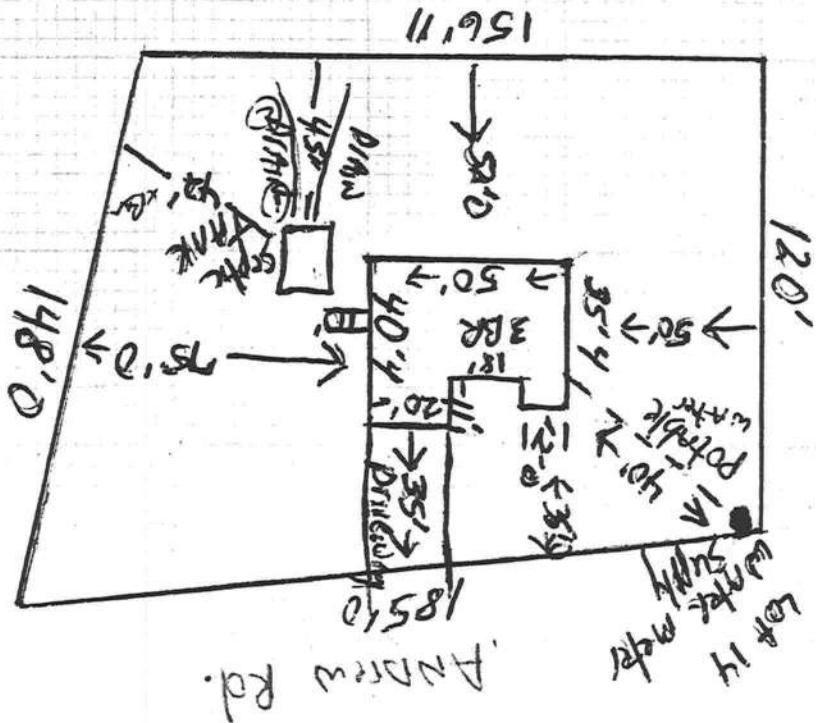
Permit Application Number

05-1194N

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.

Lot 14 Price Creek Landng 1/2 acre



Notes:

Site Plan submitted by:

Signature

Plan Approved

Not Approved

Date 12/6/07

Title

Owner

By _____ County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

FLORIDA ENERGY EFFICIENCY CODE
FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	512075KeenWilliamsspechouse
Address:	162 SE Andrews Dr
City, State:	Lake City, FL
Owner:	
Climate Zone:	North
Builder:	Jason Ellisken
Permitting Office:	COLUMBIA
Permit Number:	23988
Jurisdiction Number:	221000

1. New construction or existing	Single family or multi-family	1	Single family	—
2. Single family or multi-family	Number of units, if multi-family	3	—	—
3. Number of Bedrooms	Is this a worst case?	Yes	—	—
4. Conditioned floor area (ft²)	1374 ft²	—	—	—
5. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)	—	—	—	—
6. U-factor:	—	—	—	—
7a. (Dble Default) 60.0 ft²	—	—	—	—
7b. (Clear) 60.0 ft²	—	—	—	—
8. Floor types	a. Slab-On-Grade Edge Insulation	R=0.0, 171.0(p) ft	—	—
9. Wall types	a. Frame, Wood, Exterior	R=13.0, 1029.0 ft²	—	—
	b. Frame, Wood, Adjacent	R=13.0, 164.0 ft²	—	—
	c. N/A	—	—	—
	d. N/A	—	—	—
	e. N/A	—	—	—
10. Ceiling types	a. Under Attic	R=30.0, 1410.0 ft²	—	—
	b. N/A	—	—	—
	c. N/A	—	—	—
11. Ducts	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 170.0 ft	—	—
	b. N/A	—	—	—
	c. N/A	—	—	—
	d. N/A	—	—	—
	e. N/A	—	—	—
12. Cooling systems	a. Central Unit	—	—	—
	b. N/A	—	—	—
	c. N/A	—	—	—
13. Heating systems	a. Electric Heat Pump	—	—	—
	b. N/A	—	—	—
	c. N/A	—	—	—
14. Hot water systems	a. Electric Resistance	—	—	—
	b. N/A	—	—	—
	c. Conservation credits	—	—	—
	(HR-Heat recovery, Solar	—	—	—
	DHP-Dedicated heat pump)	—	—	—
	HVAC credits	—	—	—
	(CF-Ceiling fan, CV-Cross ventilation,	—	—	—
	HF-Whole house fan,	—	—	—
	PT-Programmable Thermostat,	—	—	—
	MZ-C-Multizone cooling,	—	—	—
	MZ-H-Multizone heating)	—	—	—
Cap: 26.0 Kbtu/hr	SEER: 10.00	—	—	—
Cap: 26.0 Kbtu/hr	HSFP: 7.00	—	—	—
Cap: 40.0 gallons	EF: 0.93	—	—	—

Glass/Floor Area: 0.08	Total as-built points: 21832	PASS
DATE: 12-7-05		
PREPARED BY: [Signature]		
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.		
OWNER/AGENT: _____		
I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.		
DATE: _____		
BUILDING OFFICIAL: _____		
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.		
GREAT SEAL OF THE STATE OF FLORIDA		

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

EnergyGauge® (Version: FLRCSB v4.0)

SUMMER CALCULATIONS
Residential Whole Building Performance Method A - Details

ADDRESS: 162 SE Andrews Dr, Lake City, FL,

PERMIT #:

BASE										AS-BUILT									
GLASS TYPES										Overhang									
.18 X Conditioned X BSPM = Points					Type/SC					Ornt Len Hgt Area X SPM X SOF = Points									
.18					1374.0					4229.6									
20.04					4956.3														
Double, Clear					E 1.5 5.5 45.0 42.06 0.90					Double, Clear					E 1.5 5.5 45.0 42.06 0.90				
Double, Clear					E 1.5 8.0 20.0 42.06 0.96					Double, Clear					E 1.5 8.0 20.0 42.06 0.96				
Double, Clear					W 1.5 5.5 20.0 38.52 0.90					Double, Clear					W 1.5 5.5 20.0 38.52 0.90				
Double, Clear					W 1.5 5.5 30.0 38.52 0.90					Double, Clear					W 1.5 5.5 30.0 38.52 0.90				
1696.4																			
805.5																			
691.0																			
1036.6																			
</																			

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 162 SE Andrews Dr, Lake City, FL,

PERMIT #:

BASE	AS-BUILT									
Summer Base Points: 17191.0	Summer As-Built Points: 15490.1									
Total Summer X System = Cooling Points	Total X Cap X Duct X System X Credit = Cooling Points	(System - Points) (DM x DSM x AHU)								
17191.0	0.4266	7333.7	15490.1	1.00	1.250	0.341	1.000	6609.7	15490.1	1.00
(sys 1: Central Unit 26000 btuh, SEER/EFF(10.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(NS)										

WINTER CALCULATIONS
Residential Whole Building Performance Method A - Details

ADDRESS: 162 SE Andrews Dr, Lake City, FL,

PERMIT #:

BASE																						
GLASS TYPES																						
.18 X Conditioned X BWPM = Points																						
Floor Area																						
.18	1374.0	12.74	3150.9	Double, Clear	E	1.5	5.5	45.0	18.79	1.04	880.6											
				Double, Clear	E	1.5	8.0	20.0	18.79	1.02	383.3											
				Double, Clear	W	1.5	5.5	20.0	20.73	1.03	426.2											
				Double, Clear	W	1.5	5.5	30.0	20.73	1.03	639.3											
As-Built Total: 115.0																						
WALL TYPES																						
Area X BWPM = Points																						
Type	R-Value			Area X WPM			= Points															
Adjacent	164.0	3.60	590.4	Frame, Wood, Exterior	13.0	1029.0	3.40	3498.6														
Exterior	1029.0	3.70	3807.3	Frame, Wood, Adjacent	13.0	164.0	3.30	541.2														
Base Total: 1193.0																						
As-Built Total: 1193.0																						
DOOR TYPES																						
Area X BWPM = Points																						
Type	R-Value			Area X WPM			= Points															
Adjacent	20.0	11.50	230.0	Exterior Insulated	20.0	8.40	168.0	168.0														
Exterior	40.0	12.30	492.0	Exterior Insulated	20.0	8.40	168.0	168.0														
Base Total: 60.0																						
As-Built Total: 60.0																						
CEILING TYPES																						
Area X BWPM = Points																						
Type	R-Value			Area X WPM X WCM			= Points															
Under Attic	1374.0	2.05	2816.7	Under Attic	30.0	1410.0	2.05 X 1.00	2890.5														
Base Total: 1374.0																						
As-Built Total: 1410.0																						
FLOOR TYPES																						
Area X BWPM = Points																						
Type	R-Value			Area X WPM			= Points															
Slab	171.0(p)	8.9	1521.9	Slab-On-Grade Edge Insulation	0.0	171.0(p)	18.80	3214.8														
Raised	0.0	0.00	0.0																			
Base Total: 1521.9																						
As-Built Total: 171.0																						
INFILTRATION																						
Area X BWPM = Points																						
Area X WPM = Points																						
1374.0 -0.59 -810.7																						
1374.0 -0.59 -810.7																						

Residential Whole Building Performance Method A - Details

PERMIT #:

BASE	Winter Base Points:	11798.5	Total Winter X System = Heating Points	(System - Points) (DM x DSM x AHU)	
AS-BUILT	Winter As-Built Points:	12159.9	Total X Cap X Duct X System X Credit = Heating Points	(sys 1: Electric Heat Pump 26000 btuh, EFF(7.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 12159.9 1.000 (1.069 x 1.169 x 1.00) 0.487 1.000 1.000 7402.5 12159.9 1.000 7402.5	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: 162 SE Andrews Dr, Lake City, FL, PERMIT #:

BASE						AS-BUILT					
WATER HEATING Number of Bedrooms X Multiplier = Total						Tank EF Number of Bedrooms X Tank X Multiplier X Credit = Total					
						3					
2635.00						7820.0					
7905.0						7820.0					
As-Built Total:						As-Built Total:					
3						3					
2635.00						2606.67					
7905.0						7820.0					

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: 162 SE Andrews Dr, Lake City, FL,

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.	CHECK
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.	
Floors	606.1.ABC.1.2.2	EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate. Penetrations/openings > 1/8" sealed unless backed by truss or joint members.	
Ceilings	606.1.ABC.1.2.3	EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams. 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 circuit 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.	
HVAC Controls	607.1	Ducts in unconditioned attics: R-6 min. insulation. 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* = 83.2

The higher the score, the more efficient the home.

, 162 SE Andrews Dr, Lake City, FL,

1.	New construction or existing		12.	Cooling systems	
2.	Single family or multi-family		a.	Central Unit	
3.	Number of units, if multi-family	1			
4.	Number of Bedrooms	3	b.	N/A	
5.	Is this a worst case?	Yes	c.	N/A	
6.	Conditioned floor area (ft ²)	1374 ft ²			
7.	Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)				
a.	U-factor:				
b.	SHGC:				
(or Clear or Tint DEFAULT)					
7b.	(Clear) 60.0 ft ²				
8.	Floor types				
a.	Slab-On-Grade Edge Insulation	R=0.0, 171.0(p) ft			
b.	N/A				
c.	N/A				
9.	Wall types				
a.	Frame, Wood, Exterior	R=13.0, 1029.0 ft ²			
b.	Frame, Wood, Adjacent	R=13.0, 164.0 ft ²			
c.	N/A				
d.	N/A				
e.	N/A				
10.	Ceiling types				
a.	Under Attic	R=30.0, 1410.0 ft ²			
b.	N/A				
c.	N/A				
11.	Ducts				
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 170.0 ft			
b.	N/A				

13.	Heating systems				
a.	Electric Heat Pump				
b.	N/A				
c.	N/A				
14.	Hot water systems				
a.	Electric Resistance				
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)					

Cap: 26.0 Kbtu/hr
SEER: 10.00

Cap: 26.0 Kbtu/hr
HSPF: 7.00

Cap: 40.0 gallons
EF: 0.93

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: _____



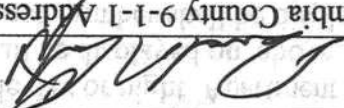
*NOTE: The home's estimated energy performance score is only available through the FLA/RFS computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStarTM designation), your home may qualify for energy efficiency mortgage (EEM) incentives if 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. EnergyGauge[®] (Version: FLRCSB v4.0)

BUILDING INPUT SUMMARY REPORT

PROJECT										FLOORS										CEILINGS										WALLS										WINDOWS																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Title: 512075KeenWilliamsspechouse										Family Type: Single										Address Type: Street Address										Lot #: N/A										Subdivision: N/A										Platbook: N/A										Street: 162 SE Andrews Dr										County: Columbia										City, St, Zip: Lake City, FL,																																																																																																																																																																																																																																																																																																																																																																																																															
Owner: (blank)										New/Existing: New										Bedrooms: 3										Conditioned Area: 1374										Total Stories: 1										Worst Case: Yes										Rotate Angle: (blank)										Jurisdiction #: (blank)										Permit Office: (blank)										Climate: North										Builder Name: (blank)										# of Units: 1																																																																																																																																																																																																																																																																																																																																																																																	
Floor Type										R-Val										Area/Perimeter										Units										1										Slab-On-Grade Edge Insulation										0.0										171.0(p) ft										1										#																																																																																																																																																																																																																																																																																																																																																																																																					
Ceiling Type										R-Val										Area										Base Area										Units										1										Under Attic										30.0										1410.0 ft²										1374.0 ft²										1										#																																																																																																																																																																																																																																																																																																																																																																																	
Credit Multipliers: None										Credit Multipliers: None										Credit Multipliers: None										Credit Multipliers: None										Credit Multipliers: None										Credit Multipliers: None										Credit Multipliers: None										Credit Multipliers: None										Credit Multipliers: None										Credit Multipliers: None										Credit Multipliers: None																																																																																																																																																																																																																																																																																																																																																																																											
#										Wall Type										Location										R-Val										Area										Units										1										Frame - Wood										13.0										1029.0 ft²										1										2										Frame - Wood																																																																																																																																																																																																																																																																																																																																																																							
#										Panels										Tint										Ornt										Area										OH Length										OH Hght										Units										1										Double										Clear										N										15.0 ft²										1.5 ft										5.5 ft										3										2										Double										Clear										N										10.0 ft²										1.5 ft										8.0 ft										2										1										Double										Clear										S										20.0 ft²										1.5 ft										5.5 ft										1										3										Double										Clear										S										15.0 ft²										1.5 ft										5.5 ft										2										4										Double										Clear										S										15.0 ft²										1.5 ft										5.5 ft										2									
DUCTS										#										Supply										Return										Location										Air Handler										Supply										R-Val										Length										Supply										1										Uncond.										Uncond.										Garage										6.0										170.0 ft										Credit Multipliers: None																																																																																																																																																																																																																																																																																																																															
WATER										#										System Type										EF										Cap.										Conservation Type										Con. EF										1										Electric Resistance										0.93										40.0										None										0.00										Credit Multipliers: None																																																																																																																																																																																																																																																																																																																																																													
REFR.										#										Use Default?										Annual Operating Cost										Electric Rate										1										Yes										N/A										N/A										Credit Multipliers: None																																																																																																																																																																																																																																																																																																																																																																																																					

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.

Address Issued By: 
Columbia County 9-1-1 Addressing / GIS Department

Remarks: LOT 14 PRICE CREEK LANDING S/D

Building Permit Number (If known):

Other Contact Phone Number (If any):

PROPERTY APPRAISER PARCEL NUMBER: 14-4S-17-08354-114

OCCUPANT CURRENT MAILING ADDRESS:

OCCUPANT NAME: NOT AVAIL.

Addressed Location 911 Phone Number: NOT AVAIL.

162 SE ANDREWS DR (LAKE CITY, FL 32025)

ENHANCED 9-1-1 ADDRESS:

DATE ISSUED: November 22, 2005

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.

Addressing Maintenance

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

COLUMBIA COUNTY 9-1-1 ADDRESSING

(Lot 14)



Columbia County Property Appraiser
J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 14-4S-17-08354-114 - VACANT (000000)
LOT 14 PRICE CREEK LANDING ORB 790-068, 792-2458

Name: SUBRANDY LIMITED PARTNERSHIP
Site: LOT 14 PRICE CREEK
Mail: P O BOX 513
LAKE CITY, FL 32056
Sales Info:

LandVal	\$9,500.00
BldgVal	\$0.00
ApplVal	\$9,500.00
JustVal	\$9,500.00
Assd	\$9,500.00
Exmpt	\$0.00
Taxable	\$9,500.00

This information, GIS Map Updated: 10/21/2005, 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, its use, or its 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.

John Keen
PDC
867:0155

**Price Creek Landing Subdivision
Lot #14**

December 12, 2005

This letter is pertaining to water supply that supplies lot #14 located in Price Creek Landing subdivision in Lake City, Florida.

This letter is to acknowledge that the water supply is being supplied by Bradley N. Dicks/Subrandy Limited Partnership.

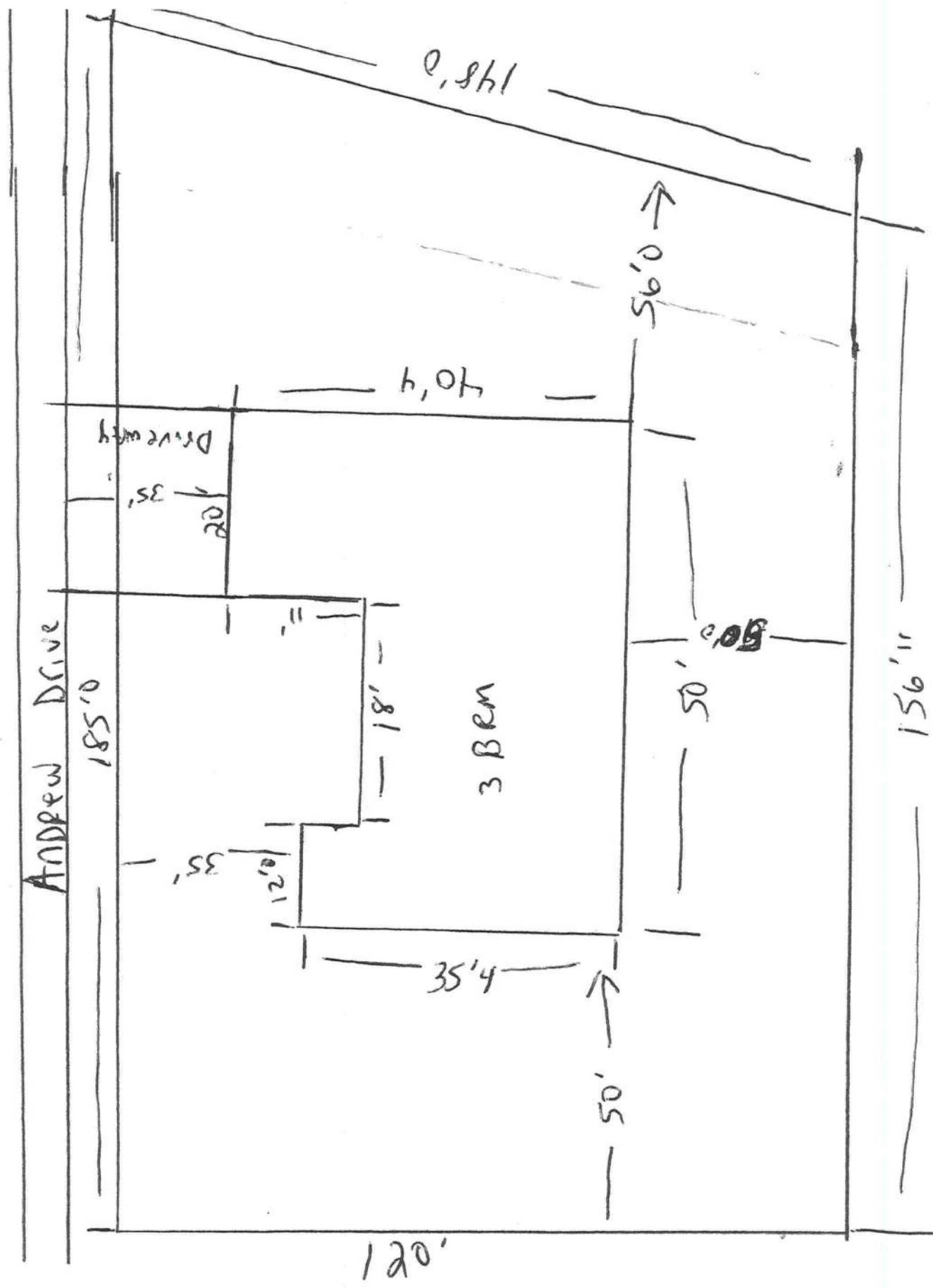
JASON ELIXSON CONSTRUCTION, LLC

**ROUTE 3 BOX 190
LAKE BUTLER, FL 32054
(386)623-1741
LICENSED AND INSURED
CBC1250331
CCC1325779**

DATE: 12-12-05

To whom it may concern,
This letter is written to inform parties concerned that Glen Keen of K & H Framing is authorized by Jason Elixson of Jason Elixson Construction, LLC. To pull permits under the licenses of Jason Elixson Construction, LLC. Until further notified by either letter or in person by Jason Elixson.

Jason Elixson



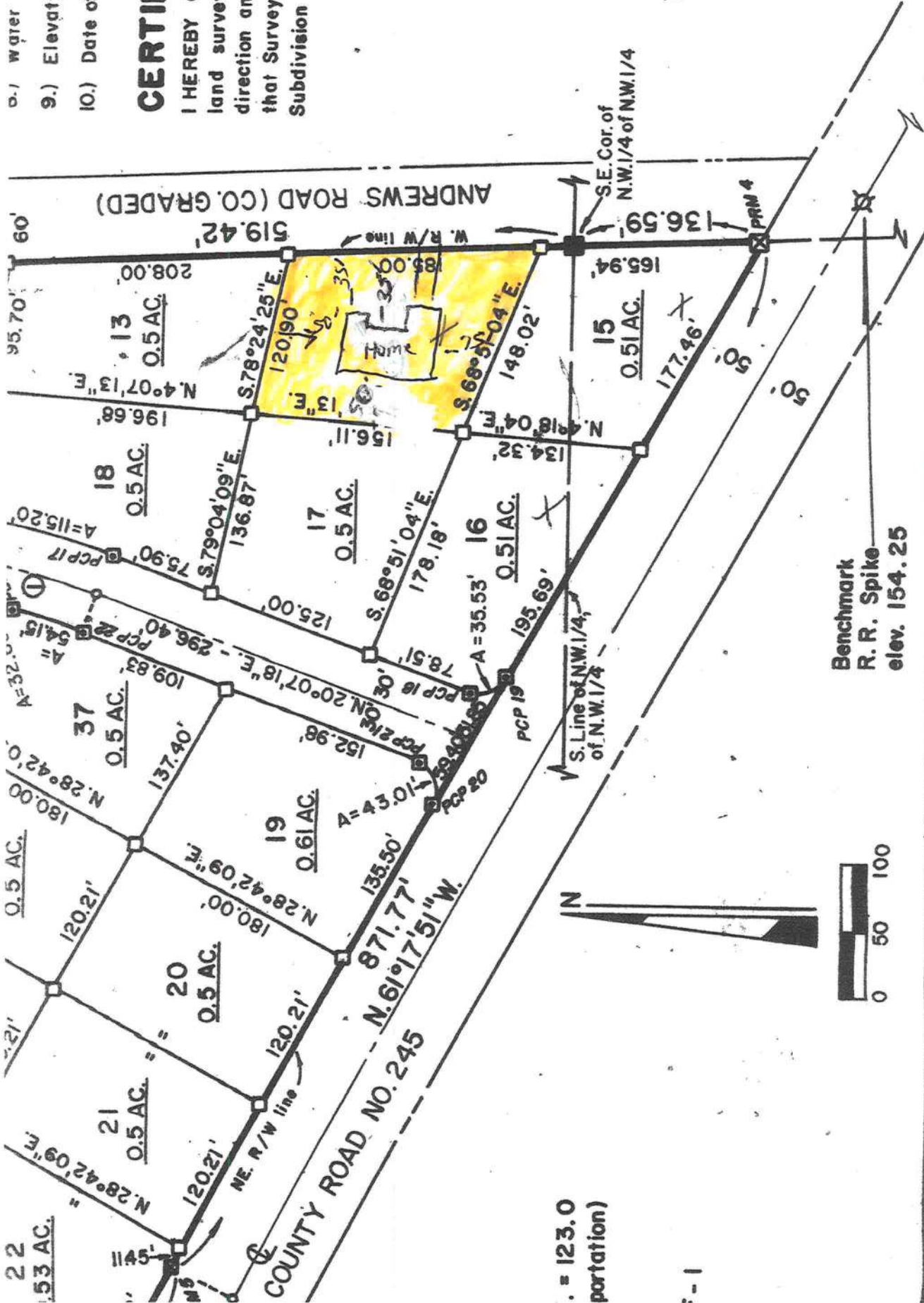
Go 90 EAST to St Rd 100, Turn right and go south to Cld 245, left 50 2-2 1/2 miles to Price Creek Landings Subdivision. Turn left on Ande

- 8.) water Supply ar
- 9.) Elevations base
- 10.) Date of Prelimin

CERTIFICATE

I HEREBY CERTIFY
land surveyed and
direction and supervi
that Survey data an
Subdivision Ordinanc

UTIL
Easem
outside
7.5' in v
BUIL
Building
30' fr
other



Columbia County Building Department
Culvert Permit
Culvert Permit No. 000000928

DATE 12/22/2005 PARCEL ID # 14-4S-17-08354-114

APPLICANT GLENN KEEN PHONE 961.8223

ADDRESS 1534 SW DEKL ROAD LAKE CITY FL 32024

OWNER GLENN KEEN/JOHN KEEN/A&B MANAGEMENT PHONE 386.867.0156

ADDRESS 162 SE ANDREWS ROAD LAKE CITY FL 32025

CONTRACTOR JASON ELIXSON PHONE 386.961.8223

LOCATION OF PROPERTY GO 90-E TO SR 100, TR TO C-245, TR TO PRICE CREEK LANDING TO ANDREWS ROAD, AND ITS THE 2ND LOT ON L.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT PRICE CREEK 14

SIGNATURE



INSTALLATION REQUIREMENTS

Culvert size will be 18 inches in diameter with a total length of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
b) the driveway to be served will be paved or formed with concrete.
Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

Culvert installation shall conform to the approved site plan standards.

Department of Transportation Permit installation approved standards.

Other

ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED
DURING THE INSTALLATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055

Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00



NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

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.

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

Tax Parcel ID Number 08354-114

1. Description of property: (legal description of the property and street address or 911 address)
162 SE Andrews Dr, Lake City, FL 32025

2. General description of improvement:
(Go 90 East to 100 (6rd) South, Turn right go to ced at turn right, go 2-2 1/2 miles to Price Creek Landing Subdivision go left on Andrew Drive (Lot 14)
New Residential 3Bdr/2 Bath Dwell

3. Owner Name & Address
Gleno Keen / John Keen
Interest in Property

4. Name & Address of Fee Simple Owner (if other than owner):
5. Contractor Name
Address 1534 SW Dekle Rd
Phone Number (886) 961-8223
6. Surety Holders Name
Address
Amount of Bond
7. Lender Name
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
Address
Phone Number

9. In addition to himself/herself the owner designates
Robert Eady
Lake City Industries
to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -
(a) 7. Phone Number of the designee (886) 758-3511
10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (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.

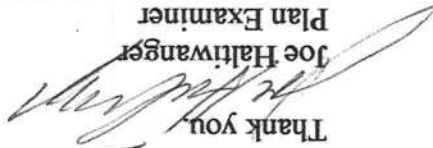
Signature of Owner
John W. Keen

NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before day of 13th Dec, 2005

REBECCA STEEDLEY
Notary Public - State of Florida

Thank you,
Joe Halitwanger
Plan Examiner
Columbia County Building Department



roof.

2. On the elevation drawing show the height from the established grade to the peak of the

approved barriers.

installed in a location where subject to mechanical damage unless protected by

FMC-2004 sections 303.4 Protection from damage. Appliances shall not be

1. In the garage area show the method of protecting the appliances as required by the

Please include application number 0512-34 when making
reference to this application.

fax any information to (386) 754-7088.

question please contact the above address, or contact phone number (386) 758-1163 or

plans will be required to continue processing this application. If you should have any

single family dwelling were reviewed and the following information or alteration to the

On the date of December 19, 2005 application 0512-34 and plans for construction of a

Glenn Keen K& H Framing Owner Glenn Keen & John Keen

Reference to: Build permit application Number:
0512-34

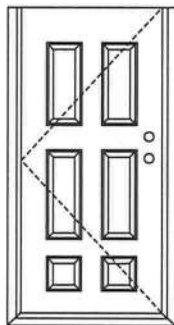
From: The Columbia County Building Department
Plans Review
135 NE Hernando Av.
P. O Box 1529
Lake City Florida, 32056-1529

X
Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:

Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure

+66.0/-66.0

limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is NOT REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

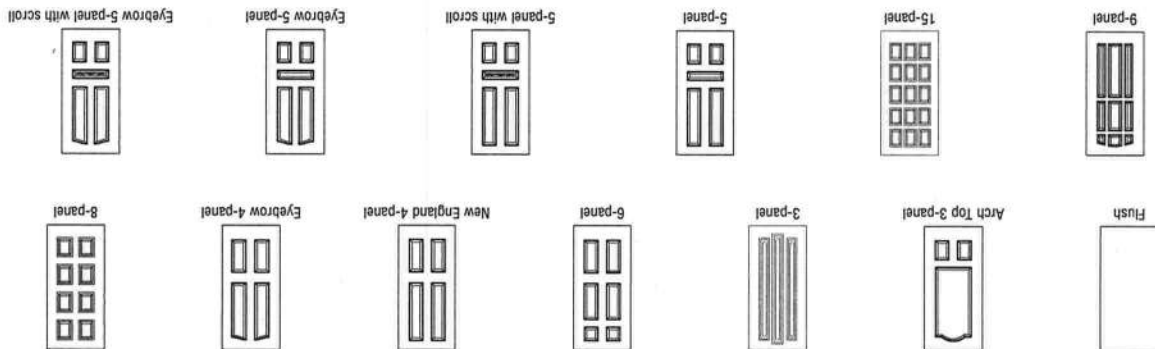
MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0001-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:



Johnson
EntrySystems™

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMIER Collection
Premium Quality Doors

Exclusively from
Masonite®
Masonite International Corporation

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt A. Bath

State of Florida, Professional Engineer
Kurt Bathazor, P.E. – License Number 56533

Warnock Hersey

Test Data Review Certificate #3026447A
and COP/Test Report Validation Matrix
#3026447A-001 provides additional
information - available from the ITS/VH
website (www.itsvh.com), the
Masonite website (www.masonite.com)
or the Masonite technical center.

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO
PA201, PA202 & PA203
COMPANY NAME
CITY, STATE

PRODUCT COMPLIANCE LABELING:

NCTL 210-2185-1, 2, 3
Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.
Unit Tested in Accordance with Miami-Dade BCCO PA201, PA202 and PA203.
Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood.
Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior
cavity of slab filled with rigid polyurethane foam core.
Frame constructed of wood with an extruded aluminum threshold.

CERTIFIED TEST REPORTS:

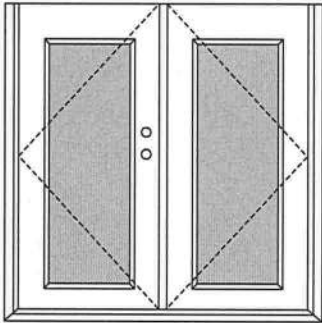
WOOD-EDGE STEEL DOORS

X
Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

Warrnack Hersey
Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITSMW website (www.etsmko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Double Door
Maximum unit size = 6'0" x 6'8"

Design Pressure

+40.5/-40.5

Limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02.

APPROVED DOOR STYLES:

1/4 GLASS:



100 Series



133, 135 Series



136 Series



680 Series

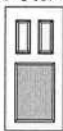


822 Series

1/2 GLASS:



105 Series*



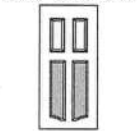
106, 160 Series*



129 Series*



200 Series*



12 R/L, 23 R/L, 24 R/L Series*



107 Series*



108 Series



304 Series

Johnson
Entysystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt A. Balhazor

State of Florida, Professional Engineer
Kurt Balhazor, P.E. – License Number 56533

Warnock Hersey

Test Data Review Certificate #3026447A and COP/7est Report Validation Matrix #3026447A-001 provides additional information - available from the ITSMW website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202
COMPANY NAME
CITY, STATE

PRODUCT COMPLIANCE LABELING:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3
Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.
Unit Tested in Accordance with Miami-Dade BCCO PA202.
Evaluation report NCTL-210-2794-1
Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood.
Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.
Frame constructed of wood with an extruded aluminum bumper threshold.

CERTIFIED TEST REPORTS:

APPROVED DOOR STYLES:

3/4 GLASS:

FULL GLASS:

WOOD-EDGE STEEL DOORS

XX
Glazed Outswing Unit

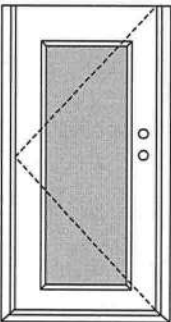
COP-WL-JH4162-02

COP-WL-JH4161-02

X
Glazed Outswing Unit

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure

+40.5/-40.5

Limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0011-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

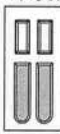
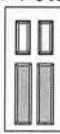
Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

1/4 GLASS:



1/2 GLASS:



Johnson
Entrysystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

3/4 GLASS:

404 Series

410 Series

450 Series

109 Series

114, 120, 122 Series

152 Series

149 Series

300 Series

FULL GLASS:

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3
Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.
Unit Tested in Accordance with Miami-Dade BCCO PA202.
Evaluation report NCTL-210-2794-1
Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood.
Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior
cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid
plastic lip lite surround.
Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged
exterior door unit conforms to the requirements of the 2001 Florida
Building Code, Chapter 17 (Structural Tests and Inspections).
Kurt J. Bath
State of Florida, Professional Engineer
Kurt Bathazor, P.E. – License Number 56533

Warrnack Horsley

Test Data Review Certificate #3026447A
and COP/Test Report Validation Matrix
#3026447A-001 provides additional
information - available from the ITSMW
Masonite website (www.masonite.com). The
or the Masonite technical center.



MAH:mb

Mark A. Hess, Technician

Mark A. Hess

For ARCHITECTURAL TESTING, INC.

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

Title of Test	Results
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft ²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

AAMA/NWDA 101/1.S.2-97
TEST REPORT SUMMARY
Rendered to:
MI HOME PRODUCTS, INC.
SERIES/MODEL: 650 Fin
TYPE: Aluminum Single Hung Window



AAMA/NWDA 101/1.S.2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01
Test Date: 03/07/02
Report Date: 03/26/02
Expiration Date: 03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethtown, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWDA 101/1.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced poly spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Allen G. Rumm
1 APRIL 2002



Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash styles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of styles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

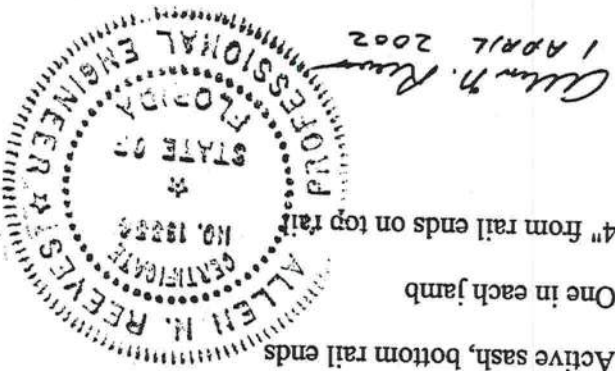
Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Metal cam lock with keeper	2	Midspan, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail



Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
Air Infiltration (ASTM E 283-91)			
@ 1.57 psf (25 mph)			
0.13 cfm/ft ²			
0.3 cfm/ft ² max			

Note #1: The tested specimen meets the performance levels specified in AAMA/NWDA 101/I.S. 2-97 for air infiltration.

Water Resistance (ASTM E 547-00)
(with and without screen)
WTP = 2.86 psf
No leakage

2.1.4.1 Uniform Load Deflection (ASTM E 330-97)
(Measurements reported were taken on the meeting rail)
(Loads were held for 33 seconds)
@ 25.9 psf (positive) 0.42"
@ 34.7 psf (negative) 0.43"*
0.26" max.

*Exceeds L/175 for deflection, but passes all other test requirements.
2.1.4.2 Uniform Load Structural (ASTM E 330-97)
(Measurements reported were taken on the meeting rail)
(Loads were held for 10 seconds)
@ 38.9 psf (positive) 0.02"
@ 52.1 psf (negative) 0.02"
0.18" max.



Allen N. Reeves
1 APR 12 2002

Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
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2.2.1.6.2	Deglazing Test (ASTM E 987)	In operating direction at 70 lbs	
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A		
	Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Optional Performance

4.3	Water Resistance (ASTM E 547-00)	(with and without screen)	WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97)	(Measurements reported were taken on the meeting rail)	(Loads were held for 33 seconds)	@ 45.0 psf (positive) 0.47"*	@ 47.2 psf (negative) 0.46"*
	*Exceeds L/175 for deflection, but passes all other test requirements.				

	Uniform Load Structural (ASTM E 330-97)	(Measurements reported were taken on the meeting rail)	(Loads were held for 10 seconds)	@ 67.5 psf (positive) 0.05"	@ 70.8 psf (negative) 0.05"
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MAH:nlb
01-41134.01

Mark A. Hess
Technician

Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002

For ARCHITECTURAL TESTING, INC:

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.





Allen H. Reeves
7 JUNE 2002

Reference should be made to ATI Report No. 01-41641.01 for complete description and data.

Title of Test	Summary of Results
AAMA Rating	H-R35 112 x 72
Uniform Load Deflection Test Pressure	+35.3 psf -47.2 psf
Operating Force	25 lb max.
Air Infiltration	0.16 cfm/ft ²
Water Resistance Test Pressure	5.25 psf
Uniform Load Structural Test Pressure	+53.0 psf -52.5 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

AAMA/NWDA 101/1.S.2-97
TEST REPORT
Rendered to:
MI HOME PRODUCTS, INC.
SERIES/MODEL: 650
TYPE: Aluminum Triple Single Hung Window



Architectural Testing



AAMA/NWDA 101/I.S.2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC.
P.O. Box 370
650 West Market Street
Gatz, Pennsylvania 17030-0370

Report No: 01-41641.01
Test Date: 05/13/02
And: 05/16/02
Report Date: 06/05/02
Expiration Date: 05/16/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to witness testing on a Series/Model 650, aluminum triple single hung window at their facility located in Elizabethtown, Pennsylvania. The sample tested successfully met the performance requirements for a H-R35 112 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 650

Type: Aluminum Triple Single Hung Window

Overall Size: 9' 3-1/2" wide by 5' 11-11/16" high

Active Sash Size (3): 3' 0-1/4" wide by 2' 10-3/4" high

Fixed Daylight Opening Size (3): 2' 8-1/4" wide by 2' 9-1/8" high

Screen Size (3): 2' 9-1/8" wide by 2' 11" high

Finish: All aluminum was painted white.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com



Test Specimen Description: (Continued)

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

Weatherstripping:

Description	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" by 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. The meeting rail was secured to the frame utilizing two 1-1/4" screws. The mullions were secured utilizing four #8 x 1-1/4" screws through the head and sill into the mullion screw boss.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each stiles' screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.



Test Specimen Description: (Continued)

Hardware:

Description	Quantity	Location
Metal cam lock with keeper	1	Midspace of each active meeting rail with adjacent keepers
Plastic tilt latch	2	Each active sash meeting rail ends
Metal tilt pin	2	Each active sash bottom rail ends
Balance assembly	2	Each active sash contained one in each jamb
Screen plunger	2	Each screen contained two 4" from rail ends on top rail

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

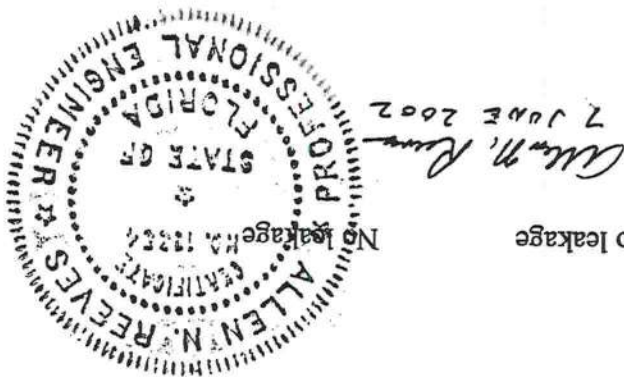
The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	25 lbs	30 lbs max.
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.16 cfm/ft ²	0.3 cfm/ft ² max

Note #1: The tested specimen meets the performance levels specified in AAMA/NWDA 101/I.S. 2-97 for air infiltration.

Water Resistance (ASTM E 547-00)
(with and without screen)
WTP = 2.86 psf

No leakage



Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
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2.1.4.1	Uniform Load Deflection (ASTM E 330-97)		
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(Measurements reported were taken on the mullion)

(Loads were held for 52 seconds)

@ 15.0 psf (positive)

@ 15.0 psf (negative)

0.41" max.
0.41" max.

0.15"
0.29"

Uniform Load Structural (ASTM E 330-97)

(Measurements reported were taken on the mullion)

(Loads were held for 10 seconds)

@ 22.5 psf (positive)

@ 22.5 psf (negative)

0.29" max.
0.29" max.

0.01"
0.01"

Deglazing Test (ASTM E 987-88)

In operating direction at 70 lbs

Right sash, meeting rail

Right sash, bottom rail

Middle sash, meeting rail

Middle sash, bottom rail

Left sash, meeting rail

Left sash, bottom rail

In remaining direction at 50 lbs

Right sash, right stile

Right sash, left stile

Middle sash, right stile

Middle sash, left stile

Left sash, right stile

Left sash, left stile

Forced Entry Resistance (ASTM F 588-97)

2.8

Type: A

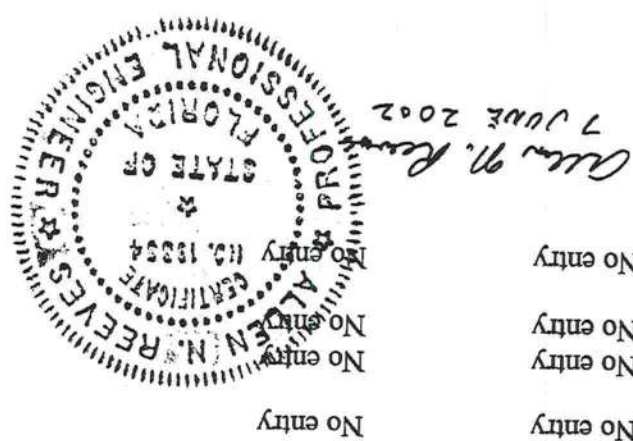
Grade: 10

Lock Manipulation Test

Test A1 through A5

Test A7

Lock Manipulation Test



Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
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Optional Performance

4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 5.25 psf	No leakage	No leakage
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	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 52 seconds) @ 35.3 psf (positive) @ 47.2 psf (negative)	0.46"* 0.67"*	0.41" max 0.41" max
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*Exceeds L/175 for deflection, but meets all other test requirements.

	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the mullion) (Loads were held for 10 seconds) @ 53.0 psf (positive) @ 52.5 psf (negative)	0.03" 0.02"	0.29" max 0.29" max
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Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess

Mark A. Hess
Technician

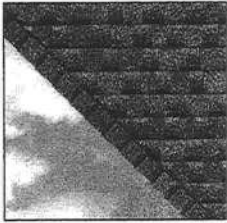
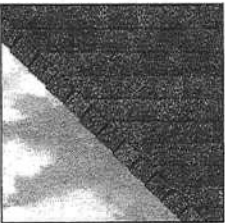
MAH:mlb
01-41641.01

Allen N. Reeves, P.E.
Director - Engineering Services
7 June 2002



[illegible]

Lot 14

	PRESTIQUE® HIGH DEFINITION®		RAISED PROFILE®
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Prestique Plus High Definition and Prestique Gallery Collection™	Raised Profile
Product size 13'x 39" 50-year limited warranty period: shingles and application labor with 5-7 years non-prorated coverage for prorated coverage for remainder of limited warranty period, plus an option for transferability™, 5-year limited wind warranty™, Wind Coverage: standard 80 mph, extended 110 mph***	Product size 13'x 38" 30-year limited warranty period: shingles and application labor with 5-7 years non-prorated coverage for prorated coverage for remainder of limited warranty period, plus an option for transferability™, 5-year limited wind warranty™, Wind Coverage: standard 70 mph.
Exposure 5" Pieces/Bundle 16 Bundles/Square 4/98.5 sq.ft. Squares/Pallet 11	Exposure 5" Pieces/Bundle 22 Bundles/Square 3/100 sq.ft. Squares/Pallet 16

Prestique I High Definition	HIP AND RIDGE SHINGLES
Product size 13'x 39" 40-year limited warranty period: shingles and application labor with 5-7 years non-prorated coverage for prorated coverage for remainder of limited warranty period, plus an option for transferability™, 5-year limited wind warranty™, Wind Coverage: standard 80 mph, extended 90 mph***	Seal-A-Ridge® w/FLX™ Vented RidgeCrest™ w/FLX™ Size: 12" x 12" Exposure: 6 1/2" Pieces/Bundle: 45 Coverage: 4 Bundles = 100 linear feet Size: 13" x 13 1/2" Exposure: 9 1/2" Pieces/Box: 26 Coverage: 5 Boxes = 100 linear feet
Exposure 5" Pieces/Bundle 16 Bundles/Square 4/98.5 sq.ft. Squares/Pallet 14	Exposure 5" Pieces/Bundle 22 Bundles/Square 3/100 sq.ft. Squares/Pallet 16
Product size 13'x 39" 30-year limited warranty period: shingles and application labor with 5-7 years non-prorated coverage for prorated coverage for remainder of limited warranty period, plus an option for transferability™, 5-year limited wind warranty™, Wind Coverage: standard 80 mph.	Product size 13'x 38" 30-year limited warranty period: shingles and application labor with 5-7 years non-prorated coverage for prorated coverage for remainder of limited warranty period, plus an option for transferability™, 5-year limited wind warranty™, Wind Coverage: standard 80 mph.
Exposure 5" Pieces/Bundle 22 Bundles/Square 3/100 sq.ft. Squares/Pallet 16	Exposure 5" Pieces/Bundle 22 Bundles/Square 3/100 sq.ft. Squares/Pallet 16

Available Colors (Check Availability): Andique Slate, Weatheredwood, Shalewood, Sablewood, Hickory, Barkwood, Forest Green, Wedgewood, Birchwood, Sandalwood, Gallery Collection, Balsam Forest™, Weathered Sage™, Sienna Sunset™.

All Prestique, Raised Profile and Seal-A-Ridge, and Prestique Starter Strip roofing products contain sealant which activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard™ treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae.

All Prestique and Raised Profile shingles meet UL Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790) and ASTM Specifications D 3018, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles have approval from the Florida Building Code Commission, Metro-Dade County, ICB0, and Texas Department of Insurance.

**See actual limited warranty for conditions and limitations.

***Effective January 1, 2004, the seven year non-prorated Underlayment Coverage Period applies only when a full Elk Roof System is installed with the original installation of the Elk shingles, all in accordance with Elk's application instructions for such products. A full Elk roof system includes Elk Hip and Ridge shingles on all hips and ridges, Elk Starter Strip along all rake and eave edges, an Elk ventilation system, and Elk All-Climate Self-Adhering Underlayment is required along the rake and eave edges of the roof in and north of the states of VA, KY, MO, KS, CO, UT, NY, & OR.

For a limited Wind Warranty up to 110 mph for Prestique Plus, or 90 mph for Prestique I or Grand, at least six (6) properly placed nails and Elk Starter Strip shingles are required. See application instructions printed on the shingle wrapper for additional requirements.

SPECIFICATIONS

Scope: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color) foot (101.6/304.8mm) or greater, apply non-prorated No. 15 and printed on the back of every shingle bundle. All complete application instructions are published by Elk.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

Penetration or Roof Deck: Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards, exterior-grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association, 7/16" (11.074mm) oriented strandboard, or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

Materials: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater, apply non-prorated No. 15 or 30 asphalt-saturated felt underlayment for low slopes; 4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm). Use two plies of underlayment overlapped a minimum of 18". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula /FLX with StainGuard treatment.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfo@elkcorp.com.

CORPORATE HEADQUARTERS: 800.354.7732
PLANT LOCATION: 800.945.5545

Prepared By:
Chuck Fischer
North Central Florida Air Conditioning
P.O. Box 700
High Springs FL 32655-0700
386-454-4767
Wednesday, November 23, 2005

Elite Software

RHVAC RESIDENTIAL HVAC LOADS

John Keen Lot 14
HVAC Load Calculations
for
John Keen

Lot 14

Project Report

General Project Information

Project Filename: C:\Documents and Settings\Healthy\My Documents\Projects\Autoload MJB.rhv
Project Title: John Keen Lot 14
Designed By: Chuck Fischer
Project Date: November 23 th 2005
Client Name: John Keen
Client Phone: 386 - 867 - 0155
Client Comment:
Company Name: North Central Florida Air Conditioning
Company Representative: Chuck Fischer
Company Address: P.O Box 700
Company City: High Springs FL 32655-0700
Company Phone: 386-454-4767
Company Fax: 386-454-4854
Company Comment:

Design Data

Reference City: Gainesville, Florida
Daily Temperature Range: Medium
Latitude: 29 Degrees
Elevation: 152 ft.
Altitude Factor: 0.995
Elevation Sensible Adj. Factor: 1.000
Elevation Total Adj. Factor: 1.000
Elevation Heating Adj. Factor: 1.000
Elevation Heating Adj. Factor: 1.000
Outdoor Dry Bulb 31
Winter: 93
Summer: 93
Outdoor Wet Bulb 0
Indoor Rel.Hum 50
Indoor Dry Bulb 72
Grains Difference 0
50

Check Figures

Total Building Supply CFM: 818
CFM Per Square ft.: 0.595
Square ft. of Room Area: 1,374
Volume (ft³) of Cond. Space: 12,581
Air Turnover Rate (per hour): 709
3.9

Building Loads

Total Heating Required With Outside Air: 31,446 Btuh
31,446 Btuh
Total Sensible Gain: 17,899 Btuh
82 %
Total Latent Gain: 3,988 Btuh
18 %
Total Cooling Required With Outside Air: 21,887 Btuh
1.82 Tons (Based On Sensible + Latent)
1.94 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

Miscellaneous Report

System / Main Floor	Indoor	Outdoor	Wet Bulb	Rel Hum	Indoor	Dry Bulb	Difference
Input Data							
Winter:			31	0	50	72	38.42
Summer:			93	77	50	75	50.06

Duct Sizing Inputs	
<u>Main Trunk</u>	<u>Runouts</u>
Calculate:	Yes
Use Schedule:	No
Roughness Factor:	0.00300
Pressure Drop:	0.1000 in.wg./100 ft.
Minimum Velocity:	650 ft./min
Maximum Velocity:	900 ft./min
Minimum Height:	0 in.
Maximum Height:	0 in.

Infiltration:		Total Building Infiltration:			
Volume of Conditioned Space:					Total Building Ventilation:
winter 0.900 AC/hr	X 12581 Cu.ft.	CFM 189	X 0.0167		CFM 0
	=	11,323 Cu.ft./hr			
summer 0.400 AC/hr	X 12581 Cu.ft.		X 0.0167		
	=	5,032 Cu.ft./hr			CFM 84
					CFM 0

—System 1—

Infiltration & Ventilation Sensible Gain Multiplier:

Infiltration & Ventilation Latent Gain Multiplier:

Infiltration & Ventilation Sensible Loss Multiplier:

$$\begin{aligned} 19.69 &= (1.10 \times 0.995 \times 18.00 \text{ Summer Temp. Difference}) \\ 33.85 &= (0.68 \times 0.995 \times 50.06 \text{ Grains Difference}) \\ 44.85 &= (1.10 \times 0.995 \times 41.00 \text{ Winter Temp. Difference}) \end{aligned}$$

Load Preview Report

Scope	Area	Sens	Lat	Net	Sens	Loss	Wn	Sum	Sys	Duct
Size		Gain	Gain	Gain	Loss		CFM	CFM	CFM	

Building: 1.82 Net Tons, 1.94 Recommended Tons, 709 Btu/Ton, 31.45 MBH Heating										
Building	1,374	17,899	3,988	21,887	31,446	411	818	818	818	

System 1	1,374	17,899	3,988	21,887	31,446	411	818	818	818	13x13
Zone 1	1,374	17,899	3,988	21,887	31,446	411	818	818	818	
1-Bedroom 1	181	2,518	703	3,221	4,986	65	115	115	115	1-6
2-Bath 2	48	694	97	791	990	13	32	32	32	1-3
3-Bedroom 2	174	2,426	692	3,118	4,825	63	111	111	111	1-6
4-Living Room	316	1,795	525	2,320	5,372	70	82	82	82	2-4
5-Dining Room And Kitchen	242	4,499	553	5,052	4,484	59	206	206	206	2-6
6-Master Bath	59	740	97	837	1,008	13	34	34	34	1-3
7-W.I.C	39	372	0	372	128	2	17	17	17	1-3
8-Master Bedroom	242	3,701	1,026	4,727	6,575	86	169	169	169	1-8
9-Laundry Room	54	1,121	295	1,416	2,981	39	51	51	51	1-4
10-Hall	19	31	0	31	97	1	1	1	1	1-1



Total Building Summary Loads

Component	Area	Sen	Lat	Sen	Total
Description	Quan	Loss	Gain	Gain	Gain

1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	34	1,046	0	793	793
10B-b: Glazing-French door, double pane clear glass, metal frame with break, ground reflectance = 0.32	39.4	469	0	332	332
11P: Door-Polyurethane Core	881.3	2,711	0	899	899
12C-3bw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, R-3 board insulation, brick finish, wood studs	188.8	581	0	289	289
12C-3sw: Wall-Frame, R-13 insulation in stud cavity, R-3 board insulation, siding finish, wood studs	95	611	0	404	404
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1374.9	1,803	0	1,891	1,891
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	156	8,686	0	0	0

Subtotals for structure:	5	17,743	0	5,807	5,807
People:			1,150	1,500	2,650
Equipment:			0	1,200	1,200
Lighting:	1395			4,757	4,757
Ductwork:		5,240	0	2,983	2,983
Infiltration: Winter CFM: 189, Summer CFM: 84		8,463	2,838	1,652	4,490
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
Total Building Load Totals:		31,446	3,988	17,899	21,887

Check Figures					
Total Building Supply CFM:	818				
Square ft. of Room Area:	1,374				
Volume (ft³) of Cond. Space:	12,581				
Building Loads					
Total Heating Required With Outside Air:	31,446 Btuh				
Total Sensible Gain:	17,899 Btuh				
Total Latent Gain:	3,988 Btuh				
Total Cooling Required With Outside Air:	21,887 Btuh				
		18 %			
		82 %			
		1.82 Tons (Based On Sensible + Latent)			
		1.94 Tons (Based On 77% Sensible Capacity)			

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1 Main Floor Summary Loads (Average Method)

Component	Area	Sen	Lat	Sen	Total
Description	Quan	Loss	Gain	Gain	Gain

1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	34	1,046	0	793	793
10B-b: Glazing-French door, double pane clear glass, metal frame with break, ground reflectance = 0.32	39.4	469	0	332	332
11P: Door-Polyurethane Core					
12C-3bw: Wall-Framed, R-13 insulation in 2 x 4 stud cavity, R-3 board insulation, brick finish, wood studs	881.3	2,711	0	899	899
12C-3sw: Wall-Framed, R-13 insulation in 2 x 4 stud cavity, R-3 board insulation, siding finish, wood studs	188.8	581	0	289	289
12A-3sw: Wall-Framed, no insulation in stud cavity, R-3 board insulation, siding finish, wood studs	95	611	0	404	404
16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1374.9	1,803	0	1,891	1,891
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	156	8,686	0	0	0

Subtotals for structure:	5	17,743	0	5,807	5,807
People:			1,150	1,500	2,650
Equipment:			0	1,200	1,200
Lighting:	1395			4,757	4,757
Ductwork:		5,240	0	2,983	2,983
Infiltration: Winter CFM: 189, Summer CFM: 84		8,463	2,838	1,652	4,490
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0

System 1 Main Floor Load Totals:

Check Figures	CFM Per Square ft.:	Square ft. Per Ton:	Air Turnover Rate (per hour):
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Supply CFM:	818		0.595
Square ft. of Room Area:	1,374		709
Volume (ft³) of Cond. Space:	12,581		3.9

System Loads

Total Heating Required With Outside Air:	31,446 Btuh	31.446 MBH	
Total Sensible Gain:	17,899 Btuh	82 %	
Total Latent Gain:	3,988 Btuh	18 %	
Total Cooling Required With Outside Air:	21,887 Btuh		1.82 Tons (Based On Sensible + Latent)
			1.94 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System 1, Zone 1 Summary Loads (Average Method)

Component	Area	Sen	Lat	Sen	Total
Description	Quan	Loss	Gain	Gain	Gain

1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	34	1,046	0	793	793
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10B-b: Glazing-French door, double pane clear glass, metal frame with break, ground reflectance = 0.32	39.4	469	0	332	332
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11P: Door-Polyurethane Core	881.3	2,711	0	899	899
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12C-3bw: Wall-Frame, R-13 insulation in 2 x 4 stud cavity, R-3 board insulation, brick finish, wood studs	188.8	581	0	289	289
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12A-3sw: Wall-Frame, no insulation in stud cavity, R-3 board insulation, siding finish, wood studs	95	611	0	404	404
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16C-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, White or Light Color Shingles, Any Wood Shake, Light Metal, Tar and Gravel or Membrane, R-30 insulation	1374.9	1,803	0	1,891	1,891
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22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	156	8,686	0	0	0
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Subtotals for structure:	5	17,743	0	5,807	5,807
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People:		1,150	1,500	2,650	
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Equipment:		0	1,200	1,200	
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Lighting:	1395		4,757	4,757	
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Ductwork:		5,240	2,983	2,983	
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Infiltration: Winter CFM: 189, Summer CFM: 84		8,463	2,838	1,652	4,490
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System 1, Zone 1 Load Totals:		31,446	3,988	17,899	21,887
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Check Figures	818	1,374	12,581	0.595	709
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Supply CFM:					
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Square ft. of Room Area:					
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Volume (ft³) of Cond. Space:					
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Zone Loads					
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Total Heating Required:	31,446 Btuh	31,446 MBH			
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Total Sensible Gain:	17,899 Btuh	82 %			
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Total Latent Gain:	3,988 Btuh	18 %			
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Total Cooling Required:	21,887 Btuh				
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Notes					
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Calculations are based on 8th edition of ACCA Manual J.					
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All computed results are estimates as building use and weather may vary.					
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Be sure to select a unit that meets both sensible and latent loads.					
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Residential System Sizing Calculation

Summary

Project Title: 512075KeenWilliamSpecHouse
Class 3 Rating
Registration No. 0
Climate: North

162 SE Andrews Dr
Lake City, FL

K&H Framing Inc

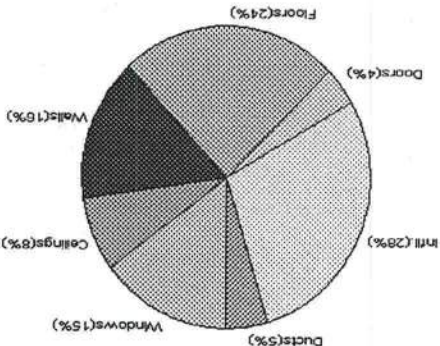
12/7/2005

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	18 F
Total heating load calculation		Total cooling load calculation	
22223 Btuh		19747 Btuh	
% of calc Btuh		Submitted cooling capacity	
117.0 26000		% of calc Btuh	
Total (Electric Heat Pump)		Sensible (SHR = 0.5)	
Heat Pump + Auxiliary(0.0kW)		Latent	
117.0 26000		Total (Electric Heat Pump)	
131.7 26000		222.7 13000	

WINTER CALCULATIONS

Winter Heating Load (for 1374 sqft)

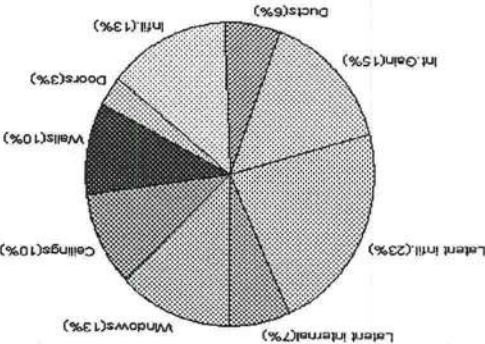
Load component		
Window total	115 sqft	3255 Btuh
Wall total	1193 sqft	3452 Btuh
Door total	60 sqft	921 Btuh
Ceiling total	1410 sqft	1833 Btuh
Floor total	171 ft	5404 Btuh
Infiltration	147 cfm	6300 Btuh
Subtotal		21165 Btuh
Duct loss		1058 Btuh
TOTAL HEAT LOSS		22223 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1374 sqft)

Load component		
Window total	115 sqft	2530 Btuh
Wall total	1193 sqft	1961 Btuh
Door total	60 sqft	608 Btuh
Ceiling total	1410 sqft	2002 Btuh
Floor total	0	0 Btuh
Infiltration	128 cfm	2544 Btuh
Internal gain		3000 Btuh
Subtotal(sensible)		12646 Btuh
Duct gain		1265 Btuh
Total sensible gain		13910 Btuh
Latent gain(infiltration)		4456 Btuh
Latent gain(internal)		1380 Btuh
Total latent gain		5836 Btuh
TOTAL HEAT GAIN		19747 Btuh



EnergyGauge® System Sizing based on ACCA Manual J.
PREPARED BY: *[Signature]*
DATE: 12-7-05

System Sizing Calculations - Winter

Residential Load - Component Details

162 SE Andrews Dr
Lake City, FL
Project Title:
512075KeenWilliamsspechHouse
Class 3 Rating
Registration No. 0
Climate: North
12/7/2005

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

Window	1	2, Clear, Metal, DEF	N	45.0	28.3	1274 Btuh
	2	2, Clear, Metal, DEF	N	20.0	28.3	566 Btuh
Walls	1	Frame - Exterior	R-Value	13.0	3.1	3190 Btuh
	2	Frame - Adjacent	R-Value	13.0	1.6	262 Btuh
Doors	1	Insulated - Exterior	Area X	18.3	HTM=	Load
	2	Insulated - Exterior	20	18.3		367 Btuh
Ceilings	1	Under Attic	Area X	1410	HTM=	1833 Btuh
	1	Ceiling Total	1410			1833 Btuh
Floors	1	Type	R-Value	Size X	HTM=	Load
	1	Slab-On-Grade Edge Insul	0	171.0 ft(p)	31.6	5404 Btuh
Infiltration	Floor Total		171			5404 Btuh
	Type		ACH X	Building Volume	CFM=	Load
	Natural		0.80	10992(sqft)	147	6300 Btuh
	Mechanical				0	0 Btuh
		Infiltration Total		147		6300 Btuh

Totals for Heating		
Subtotal	21165 Btuh	
Duct Loss(using duct multiplier of 0.05)	1058 Btuh	
Total Btuh Loss	22223 Btuh	

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

System Sizing Calculations - Summer

Residential Load - Component Details

162 SE Andrews Dr
Lake City, FL
Project Title: 512075KeenWilliamsSpechouse
Class 3 Rating
Registration No. 0
Climate: North

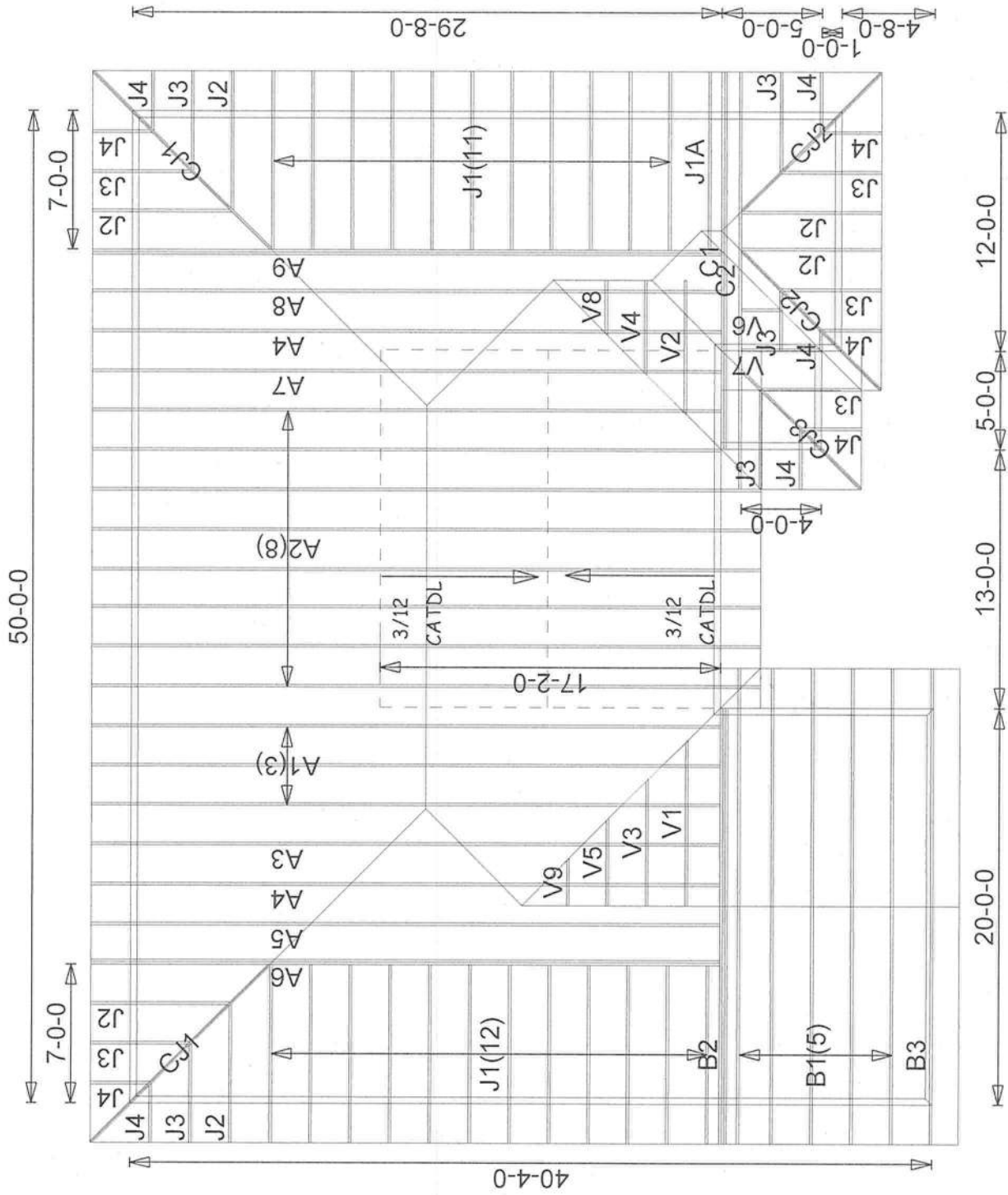
Reference City: Gainesville (Defaults)
Summer Temperature Difference: 18.0 F
12/7/2005

Window	Type	Panes/SHGC/U/Insh/Exsh Omt	Overhang	Len	Hgt	Gross	Window Area(sqft)	HTM	Load
1	2, Clear, DEF, N, N	N	1.5	5.5	45.0	0.0	45.0	22	990 Btuh
2	2, Clear, DEF, N, N	N	1.5	8	20.0	0.0	20.0	22	440 Btuh
3	2, Clear, DEF, N, N	S	1.5	5.5	20.0	0.0	20.0	22	440 Btuh
4	2, Clear, DEF, N, N	S	1.5	5.5	30.0	0.0	30.0	22	660 Btuh
Window Total									
2530 Btuh									
Walls	Type	R-Value				Area	HTM	Load	
	Frame - Exterior	13.0	1029.0	164.0	1.7	1790	171	171	171 Btuh
2	Frame - Adjacent	13.0			1.0				
Wall Total									
1961 Btuh									
Doors	Type	Area				HTM	Load		
	Insulated - Exterior	20.0	10.1	10.1	10.1	203	203	203	203 Btuh
1	Insulated - Exterior	20.0	10.1	10.1	10.1	10.1	203	203	203 Btuh
2	Insulated - Exterior	20.0	10.1	10.1	10.1	10.1	203	203	203 Btuh
3	Insulated - Adjac	20.0	10.1	10.1	10.1	10.1	203	203	203 Btuh
Door Total									
608 Btuh									
Ceilings	Type/Color	R-Value				Area	HTM	Load	
	Under Attic/Dark	30.0	1410.0	1.4	1.4	2002	2002	2002	2002 Btuh
Ceiling Total									
2002 Btuh									
Floors	Type	R-Value				Size	HTM	Load	
	Slab-On-Grade Edge Insulation	0.0	171.0	0.0	0.0	0	0	0	0 Btuh
Floor Total									
0 Btuh									
Infiltration	Type	ACH				Volume	CFM=	Load	
	Natural	0.70	10992	128.5	128.5	2544	2544	2544	2544 Btuh
Mechanical Infiltration Total									
2544 Btuh									

Internal gain	Occupants	6	Btuh/occupant	X	300	+	Appliance	1200	Load	3000	Btuh
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Totals for Cooling	Subtotal	12646	Btuh
	Duct gain(using duct multiplier of 0.10)	1265	Btuh
	Total sensible gain	13910	Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	4456	Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380	Btuh
	Latent other gain	0	Btuh
TOTAL GAIN			19747 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Omt - compass orientation)



Account: INDIVIDUAL Job: ELIXSON Designer: A. HIGHSMITH Checker: M. MURRAY Date: 11-28-05	Roof Loading TC Live: 20.00 psf TC Dead: 10.00 psf BC Live: 0.00 psf BC Dead: 10.00 psf TC Stress Inc: 25.00 BC Stress Inc: 25.00 Spacing: 2- 0- 0 o.c.	JASON ELIXSON	Mayo Truss Co, Inc. 362 NE CLYDE AVE. MAYO, FL 32066 (386)294-3988 (877)-558-6262
110 MPH ASCE WIND LOAD			



Truss Design Engineer: Vuong Phan
License #: 62111
Address: P.O. Box 280055, Tampa, FL 33682

[Handwritten signature]

Date	Mark
1	11/23/05 A1
5	11/23/05 A5
9	11/23/05 A9
13	11/23/05 C1
17	11/23/05 C3
21	11/23/05 J3
25	11/23/05 V3
29	11/23/05 V7

Date	Mark
2	11/23/05 A2
6	11/23/05 A6
10	11/23/05 B1
14	11/23/05 C2
18	11/23/05 J1
22	11/23/05 J4
26	11/23/05 V4
30	11/23/05 V8

Date	Mark
3	11/23/05 A3
7	11/23/05 A7
11	11/23/05 B2
15	11/23/05 C1
19	11/23/05 J1A
23	11/23/05 V1
27	11/23/05 V5
31	11/23/05 V9

Date	Mark
4	11/23/05 A4
8	11/23/05 A8
12	11/23/05 B3
16	11/23/05 C2
20	11/23/05 J2
24	11/23/05 V2
28	11/23/05 V6

A Professional Engineer's seal affixed to this Index Sheet indicates the acceptance of Professional Engineering responsibilities for individual truss components fabricated in accordance with the listed and attached Truss Specification Sheets. Determination as to the suitability of these individual truss components for any structure is the responsibility of the Building Designer, as defined in ANSI/TPI 1-1995, Section 2.2. Permanent files of the original Truss Specification Sheet are maintained by Robbins Engineering, Inc. Questions regarding this Index Sheet and/or the attached Specification Sheets may be directed to the truss fabricator listed above or Robbins Engineering, Inc. (Software - Online Plus)

Notes: Refer to individual truss design drawings for special loading conditions.

Job Number T05112418 Date 11/23/2005 FBC - 2004 Chapter 16 and 23 Specification Quantity 31

Engineering Index Sheet

Index Page 1 of 1

ROBBINS ENGINEERING, INC.
P.O. Box 280055
Tampa, FL 33682-0055
Phone: (813) 972-1135

Job Reference: ELIXSON - JASON ELIXSON

Truss Fabricator: Mayo Truss Company, Inc

The information in this box is for administrative purposes only and is not part of the engineering review.

Permit Number:
Lot Number:
Address:

Index Page 1 of 1

Standard Loading:

T.C. Live 20 psf
T.C. Dead 10 psf
B.C. Live 0 psf
B.C. Dead 10 psf
Total 40 psf

ANSI/ASCE 7-02
Wind Speed - 110 mph
Mean Roof Ht. - 15 ft.
Exposure Category - B
Occupancy Factor - 1.00
Enclosed
MWFRS

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

Member	CSI	P	Lbs	Ax1	CSI-Bnd
-----Top Chords-----					
A-I	0.25	2097	C	0.02	0.23
I-B	0.24	1654	C	0.01	0.23
B-K	0.12	1476	C	0.01	0.11
K-C	0.12	1476	C	0.01	0.11
C-J	0.24	1654	C	0.01	0.23
J-D	0.25	2097	C	0.02	0.23
-----Bottom Chords-----					
A-H	0.39	1878	T	0.31	0.08
H-F	0.45	1878	T	0.31	0.14
F-E	0.40	1553	T	0.26	0.14
E-G	0.45	1878	T	0.31	0.14

Brace truss as follows:			
O.C.		From	
TC Conf.	BC Conf.	0 - 0 - 0	29 - 8 - 0
Loading		Live	Dead
(psf)			
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor	1.25		
Plate Duration Factor	1.25		
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	
Plus 6 Wind Load Case(s)			
Plus 1 UBC TL Load Case(s)			
ft	React	Uplift	Size Req'd
A	1187	158	Hz = 3 - 8
D	1315	181	Hz = 4 - 0
			1 - 9
			111

```
Online Plus -- Version 18.0.014
RUN DATE: 22-NOV-05

      CSI -Size-----Lumber-----
TC      0.25  2x  4  SP-#2
BC      0.45  2x  4  SP-#2
WB      0.20  2x  4  SP-#2
```

Robbins Engineering, Inc./Online plus™ APPROX. TRUSS WEIGHT: 197.5 LBS
G-D 0.39 1878 L 0.31 0.08 Analysis Conforms To:

H-I	0.03	195	T
I-F	0.20	457	C
F-B	0.08	472	T
F-K	0.07	139	C
K-E	0.07	139	C
E-C	0.08	472	T
E-J	0.20	457	C
G-J	0.03	195	T

LT Defl -0.09" in F-E	L/999
TL Defl -0.22" in F-E	L/999
Shear // Grain in A-I	0.19

Plates for each ply each face.
PLATING CONFORMS TO TPI.

REPORT: NER 691
ROBBINS ENGINEERING, INC.

BASED ON SP LUMBER
USING GROSS AREA TEST.

Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area

	Place - rms	Pit Size	X	Y	JSI	A Lock
	4.0x	6.0	Ctr	0.1	0.64	

	LOCK	CPU	LOCK	CPU	LOCK	CPU
A	4.0X	8.0	CPI	0.1	0.64	
I	LOCK	3.0x	7.0	CPI	0.39	
B	LOCK	5.0x	5.0	CPI	-0.2	0.91

	LOCK	5.0x	5.0 CFF-0.2	7.0 CTR	5.0 CTR-0.2
B	LOCK	5.0x	5.0 CFF-0.2	0.91	
K	LOCK	3.0x	7.0 CTR	0.47	
C	LOCK	5.0x	5.0 CTR-0.2	0.91	

Case	Lock	5.0x	5.0	ctr	-0.2	0.91
C	LOCK	5.0x	5.0	ctr	-0.2	0.91
J	LOCK	3.0x	7.0	ctr	ctr	0.39
D	LOCK	4.0x	6.0	ctr	0.1	0.64

	D	H	E
LOCK	4.0x	2.0x	5.0x
CPU	6.0	4.0	8.0
CTF	0.1	0.41	0.59

LOCK	5.0x	9.0	0.5	0.8	0.59
LOCK	5.0x	9.0-0.5	0.8	0.59	

G LOCK 2.0x 4.0 Ctr Ctr 0.41

REVIEWED BY:

Robbins Engineering, Inc.
PO Box 280055

Tampa, FL 33682

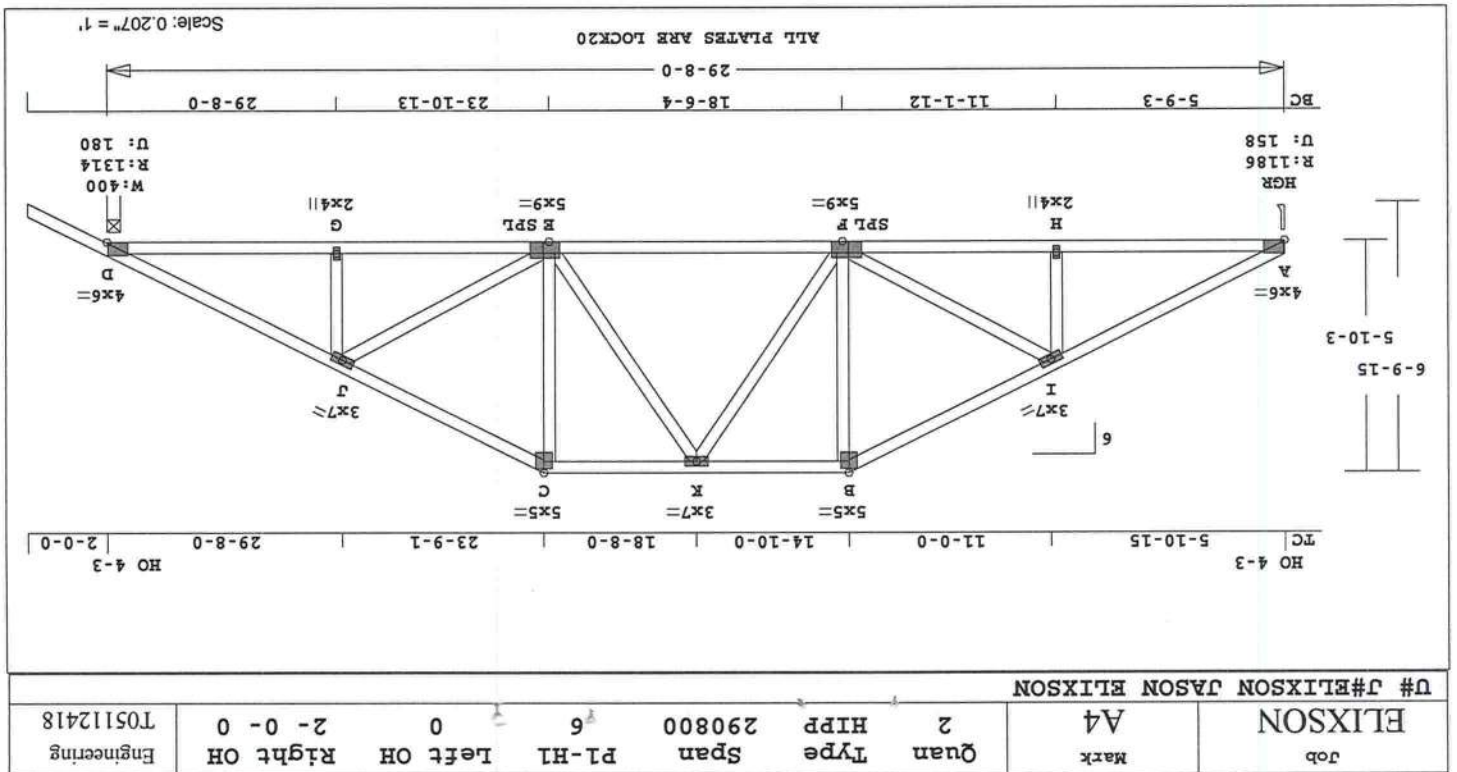
REFER TO ROBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR

NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.NOTES :
Trusses Manufactured by:

Trusses manufactured by:
Mayo Truss Co. Inc.

Engineering - Portrait 11/22/2005 3:23:08 PM Page 1

FB2004
 ON Loading
 Soffit psf 2.0
 Design checked for 10 psf non-
 concurrent TL on BC.
 Truss is designed as a Main
 Wind-Force Resistance System.
 Wind Speed: 110 mph
 Mean Roof Height: 15-0
 Exposure Category: B
 Occupancy Factor : 1.00
 Building Type: Enclosed
 Zone location: Exterior
 TC Dead Load : 5.0 psf
 BC Dead Load : 5.0 psf
 Max comp. force 2097 Lbs
 Quality Control Factor 1.25
 Truss Design Engineer: Vuong Phan
 License #: 62111
 Address: P.O. Box 280055, Tampa, FL 33682



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

REFER TO ROBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

UT	React	Uplift	Size	Req'd
A	Lbs	349	In-Sx	-89
D	Lbs	344	HZ	1-8
		2545	HZ =	152

Member	CST	P Lbs	Ax1-CST-Bnd
-----Top Chords-----			
A-I	0.16	4960 C	0.05
I-B	0.30	4866 C	0.04
B-U	0.24	5998 C	0.03
J-K	0.21	5631 C	0.02
K-L	0.19	5631 C	0.02

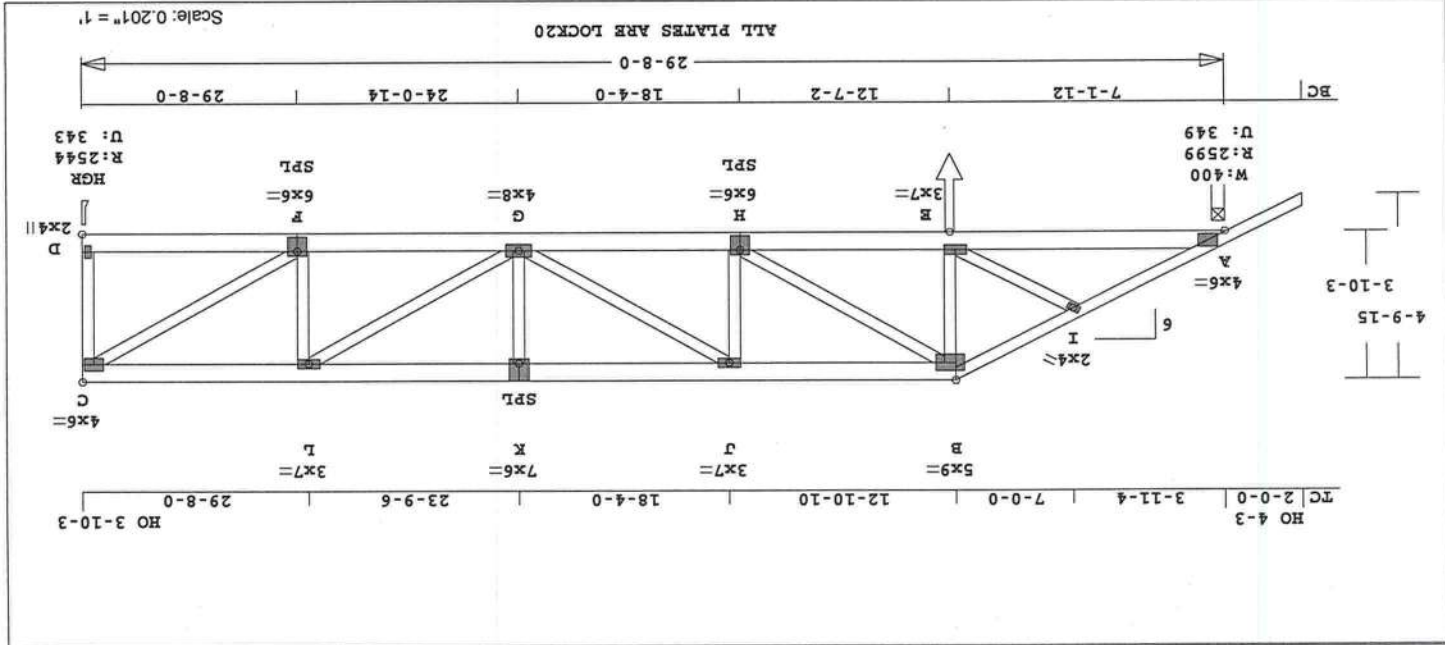
```

*****
* 2-PLY Truss *
*****
RUN DATE: 22-NOV-05
LINE Plus -- Version 18.0.014
CS1 -Size---Lumber---
TC 0.24 2x 6 SP-#2
EX A -B 2x 4 SP-#2
WB 0.40 2x 4 SP-#2
Brace truss as follows:
O.C.
TC Cont. 0-0 0 29- 8- 0
BC Cont. 0-0 0 29- 8- 0
Loading Live Dead (psf)
TC 20.0 10.0
BC 0.0 10.0
Total 20.0 20.0
Spacing 40.0 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC FB=1.00 FC=1.00 PF=1.00
BC FB=1.00 FC=1.00 PF=1.00
Load Case # 1 Girder Loading
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
pLF - Live Dead From To
TC V 40 20 0.0 29.7
BC V 0 20 0.0 29.7
TC V 50 25 7.0 28.7
BC V -40 -20 28.7 29.7
TC V 0 25 7.1 28.7
BC V 0 25 28.7 29.7
CL-LB 280 280 7.1 29.7
Plus 6 Wind Load Case(s)
Plus 1 UBC TL Load Case(s)

```

-C	0.18	3727	C	0.01	0.17
-----Bottom Chords-----					
A	-E	0.37	4416	T	0.29
H	-H	0.37	4371	T	0.29
G	-F	0.46	5598	T	0.08
G	-F	0.30	3727	T	0.06
F	-D	0.09	108	T	0.00
-----Webs-----					
I	-E	0.00	71	T	
B	-H	0.06	767	T	
B	-H	0.17	1874	T	
J	-G	0.03	642	C	
H	-G	0.03	428	C	
G	-X	0.03	705	C	
G	-L	0.20	2226	T	
F	-L	0.09	1986	C	
F	-C	0.40	4358	T	
D	-C	0.12	2467	C	Windld
LT Defl -0.12" in H -G L/999					
Shear // Grain in B -J 0.19					
Plates for each ply each face.					
PLATING CONFORMS TO TPI.					
REPORT: NER 691					
ROBBINS ENGINEERING, INC.					
BASED ON SP LUMBER					
USING GROSS AREA TEST.					
Plate - LOCK 20 ga, Gross Area					
Plate - RPS 20 ga, Gross Area					
A	LOCK	4.0x	6.0	Ctr	0.66
I	LOCK	2.0x	4.0	Ctr	0.41
B	LOCK	5.0x	9.0	Ctr	1.00
J	LOCK	3.0x	7.0	Ctr	0.40
L	LOCK	7.0x	0.0	Ctr	0.42
L	LOCK	3.0x	7.0	Ctr	0.40
E	LOCK	3.0x	7.0	Ctr	0.40
H	LOCK	6.0x	6.0	Ctr	0.51
G	LOCK	4.0x	8.0	Ctr	0.44
F	LOCK	6.0x	6.0	Ctr	1.2
D	LOCK	2.0x	4.0	Ctr	0.69

Robbins Engineering, Inc./Online plus™ APPROX. TRUSS WEIGHT: 247.7 LBS
T-C 0.18 3727 C 0.01 0.17
FBC2004



job	ELIXSON	Mark	A6	Quan	Type	Span	Pl-HI	Left OH	Right OH	Engineering	T05112418
U# J#ELIXITE JASON ELIXSON											



Truss Design Engineer: Vuong Phan
License #: 62111
Address: P.O. Box 280055, Tampa, FL 33682

girder
 Half Hip
 Jack
 Open Faced
 Setback 7 - 0 - 0
 2 COMPLETE TRUSSESS REQUIRED.
 Fasten together in staggered
 pattern. (1/2" bolts -OR-
 SPS3 screws -OR- 10d nails
 as each layer is applied.)
 ----Spacing (in)----
 Rows Nails Screws Bolts
 TC 1 12 24 0
 BC 2 12 24 0
 WB 1 4 4
 plus clusters of nails where
 shown.
 OH Loading
 Soffit psf 2.0
 Design checked for 10 psf non-
 concurrent LL on BC.
 Prevent truss rotation at all
 bearing locations.
 Truss is designed as a Main
 Wind-Force Resistance System.
 Wind Speed: 110 mph
 Mean Roof Height: 15-0
 Exposure Category: B
 Occupancy Factor : 1.00
 Building Type: Enclosed
 Zone Location: Exterior
 TC Dead Load : 5.0 psf
 BC Dead Load : 5.0 psf
 Max comp. force 5998 lbs
 Quality Control Factor 1.25



Truss Design Engineer: Vuong Phan
License #: 62111
Address: P.O. Box 280055, Tampa, FL 33682

Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
OH Loading
Soffit psc 2.0
Design checked for 10 psc non-
concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main
Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone Location: Exterior
TC Dead Load : 5.0 psc
BC Dead Load : 5.0 psc
Max comp. force 3799 lbs
Quality Control Factor 1.25

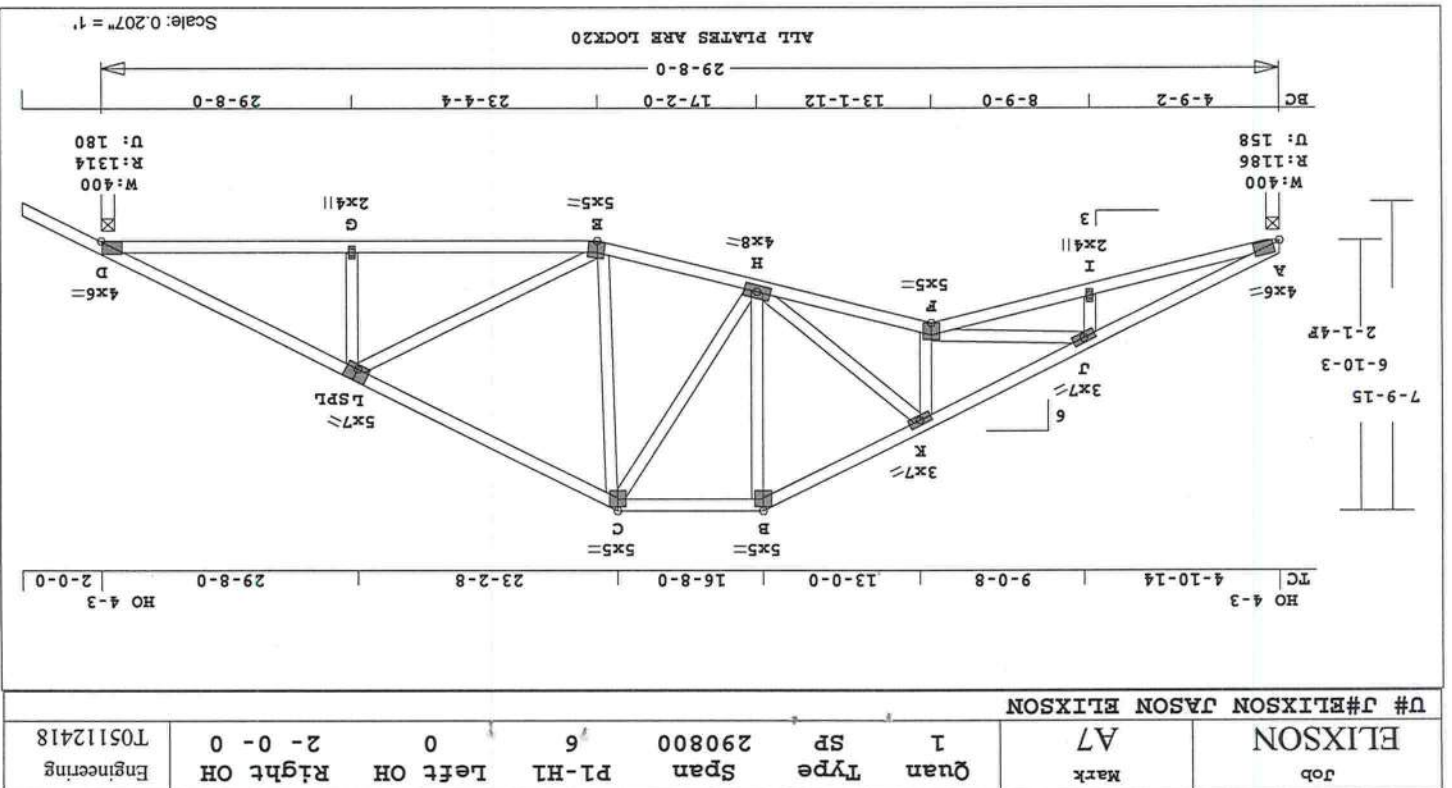
WGT: 198.9 LBS
REFER TO ROBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

I	-J	0.01	87 T
J	-F	0.05	258 C
F	-K	0.31	1718 T
K	-H	0.69	1893 C
H	-B	0.10	578 T
C	-H	0.07	380 T
E	-C	0.02	131 T
G	-L	0.36	598 C
L	-G	0.03	248 T
TL Defl	-0.21"	In I	-F
TL Defl	-0.42"	In I	-F
Shear // Grain	In C	-L	0.26
Hx Disp	LT	DL	TL
Jt D	0.12"	0.12"	0.24"
Plates for each ply each face.			
PLATING CONFORMS TO TPI.			
REPORT: NER 691			
ROBBINS ENGINEERING, INC.			
BASED ON SP LUMBER			
USING GROSS AREA TEST.			
Plate - LOCK 20 Ga, Gross Area			
Plate - RHS 20 Ga, Gross Area			
Jt Type			
A	LOCK	4.0x	6.0 Ctr
J	LOCK	3.0x	7.0 Ctr
K	LOCK	3.0x	7.0 Ctr
B	LOCK	5.0x	5.0 Ctr
C	LOCK	5.0x	5.0 Ctr
D	LOCK	5.0x	7.0-0.3-0.7
I	LOCK	4.0x	6.0 Ctr
T	LOCK	2.0x	4.0 Ctr
F	LOCK	5.0x	5.0 Ctr
H	LOCK	4.0x	8.0 Ctr
E	LOCK	5.0x	5.0 Ctr
G	LOCK	2.0x	4.0 Ctr

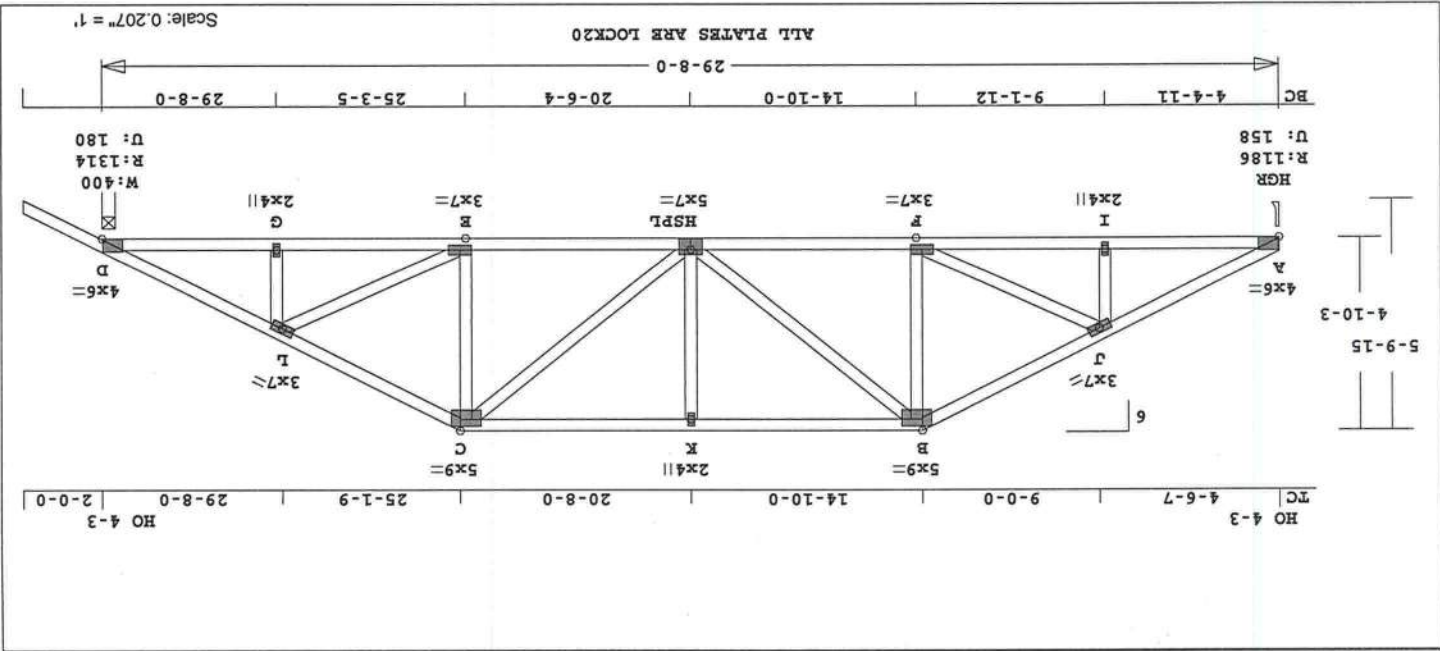
RUN DATE: 22-NOV-05									
CSI -Size- ---Lumber----									
TC	0.43	2x	4	SP-#2					
BC	0.80	2x	4	SP-#2					
WB	0.69	2x	4	SP-#2					
Brace truss as follows:									
					From	To			
TC	Conf.	0	0	0	29	8	0		
BC	Conf.	0	0	0	29	8	0		
					Live	Dead	(psf)		
TC	20.0	10.0							
BC	0.0	10.0							
Total	20.0	20.0							
					Spacing				
					Lumber Duration Factor	1.25			
					Plate Duration Factor	1.25			
TC	Fb=1.15	Fc=1.10	Ft=1.10						
BC	Fb=1.10	Fc=1.10	Ft=1.10						
Plus 6 Wind Load Case(s)									
Plus 1 UBC Lt Load Case(s)									
jt	React	Uplift	Size	Req'd					
A	Lbs	1187	Lbs	In-Sx	In-Sx				
D	Lbs	1315	Lbs	In-Sx	In-Sx				
					Hx =	-131			
					Hx =	4- 0	1- 9		
					132				
Member CSI P Lbs Ax1-CSI-Bnd									
-----Top Chords-----									
A-J	0.36	3799	C	0.10	0.26				
J-K	0.36	3475	C	0.11	0.25				
K-B	0.13	1728	C	0.01	0.12				
B-C	0.29	1545	C	0.01	0.28				
C-L	0.43	1504	C	0.04	0.39				
L-D	0.43	2085	C	0.02	0.41				
-----Bottom Chords-----									
A-I	0.80	3463	T	0.57	0.23				
I-F	0.79	3488	T	0.58	0.21				
F-H	0.59	3100	T	0.51	0.08				

Online Plus -- Version 18.0.014
RUN DATE: 22-NOV-05

Robbins Engineering



Job	Mark	Quan	Type	Span	Pl-HI	Left OH	Right OH	Engineering
ELIXSON	A8	1	HIPP	290800	6	0	2 - 0 - 0	TOS112418
U# J#ELIXSON JASON ELIXSON								



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 197.1 LBS

Mayo Truss Co. Inc. Analysis Conforms To:

FB2004 OH Loading

Design checked for 10 psf non-

concurrent LB on BC.

Wind loads - ANSI / ASCE 7-02

Truss is designed as a Main

Wind-Force Resistance System.

Wind Speed: 110 mph

Mean Roof Height: 15-0

Exposure Category: B

Occupancy Factor: 1.00

Building Type: Enclosed

Zone Location: Exterior

TC Dead Load: 5.0 psf

BC Dead Load: 5.0 psf

Max comp. force: 2157 lbs

Quality Control Factor 1.25

Truss Design Engineer: Vuong Phan

License #: 62111

Address: P.O. Box 280055, Tampa, FL 33682

No. 62111

STATE OF FLORIDA

PROFESSIONAL ENGINEER

Seal of the Professional Engineer, State of Florida, License No. 62111.

Date Sealed: 11/23/2005

Robbins Engineering, Inc. General

NOTES AND SYMBOLS SHEET FOR

ADDITIONAL SPECIFICATIONS.

REVIEWED BY:

Robbins Engineering, Inc.

PO Box 280055

Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL

NOTES AND SYMBOLS SHEET FOR

ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by:

Robbins Engineering, Inc.

PO Box 280055

Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL

NOTES AND SYMBOLS SHEET FOR

ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by:

Robbins Engineering, Inc.

PO Box 280055

Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL

NOTES AND SYMBOLS SHEET FOR

ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by:

Robbins Engineering, Inc.

PO Box 280055

Tampa, FL 33682

REFER TO ROBBINS ENG. GENERAL

Online Plus -- Version 18.0.014

RUN DATE: 22-NOV-05

CSI - Size - Lumber

TC 0.37 2x 4 SP-#2

BC 0.41 2x 4 SP-#2

WB 0.10 2x 4 SP-#2

Brace truss as follows:

From To

TC Cont. 0 - 0 - 0 29 - 8 - 0

BC Cont. 0 - 0 - 0 29 - 8 - 0

Loading Live Dead (psf)

TC 20.0 10.0

BC 0.0 10.0

Spacing 24.0"

Lumber Duration Factor 1.25

Plate Duration Factor 1.25

TC Fb=1.15 Fc=1.10 Ft=1.10

BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)

Plus 1 UBC LL Load Case(s)

Ut React Uplift Size Req'd

Lbs In-Sk In-Sk

A 1187 158 3- 8 1- 6

D 1315 181 4- 0 1- 9

Hz = -90

Hz = 91

Member CSI P Lbs Axl-Csi-Bnd

Top Chords

Bottom Chords

Robbins Engineering, Inc./Online Plus™ @ 1996-2005 Version 18.0.014 Engineering - Portal 11/22/2005 3:23:09 PM Page 1


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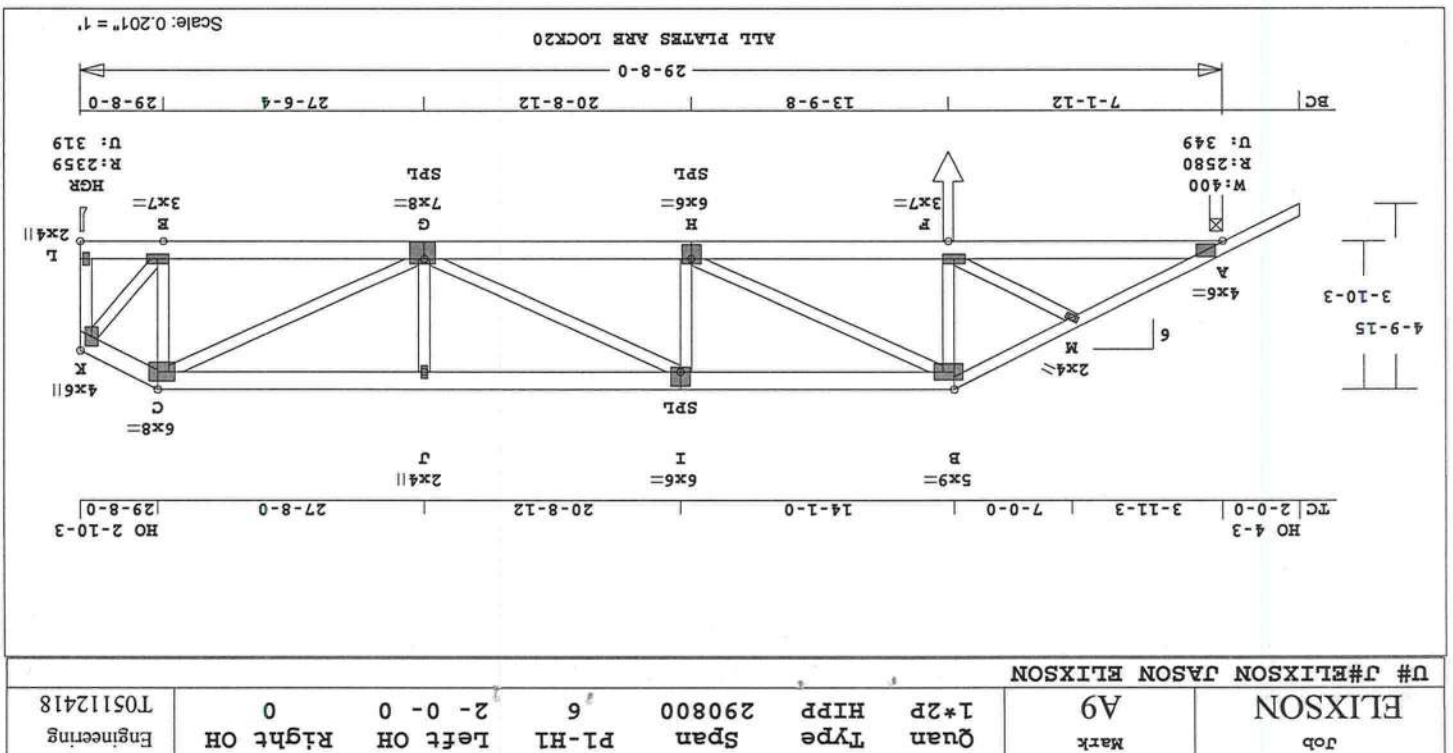
Online Plus -- Version 18.0.014
RUN DATE: 22-NOV-05
*****
* 2-PLY Truss *
*****
CSI -Size-
TC 0.33 2x 6 SP-#2
EX A -B 2x 4 SP-#2
BC 0.49 2x 6 SP-#2
WB 0.36 2x 4 SP-#2
Brace truss as follows:
O.C.
TC Cont. 0 - 0 0 29 - 8 - 0
BC Cont. 0 - 0 0 29 - 8 - 0
To
Loading Live Dead (psf)
TC 20.0 10.0 40.0
BC 0.0 10.0 20.0
Spacing
Total 20.0 20.0 40.0
24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC FB=1.00 FC=1.00 FT=1.00
BC FB=1.00 FC=1.00 FT=1.00
Load Case # 1 Girder Loading
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
p1f - Live Dead From To
TC V 40 20 0.0 29.7
BC V 50 20 0.0 29.7
TC V 50 25 7.0 26.7
TC V -40 25 7.1 27.7
BC V 0 25 7.1 26.5
BC V 0 20 26.5 27.5
CL-LB 280 280
Plus 6 Wind Load Case(s)
Plus 1 UBC TL Load Case(s)
JT React UpLft Size Req'd
A Lbs In-Sx In-Sx
A 2581 349 4 - 0 1 - 8
L 2360 319 Hz = -83
Hz = 1 - 6
Hz = 115
Member CSI P Lbs Axi-CSI-Bnd
-----Top Chords-----
A -M 0.17 4924 C 0.05 0.12
M -B 0.32 4839 C 0.04 0.28
B -I 0.33 6076 C 0.04 0.29
I -J 0.30 4910 C 0.01 0.29
J -C 0.23 4910 C 0.01 0.22

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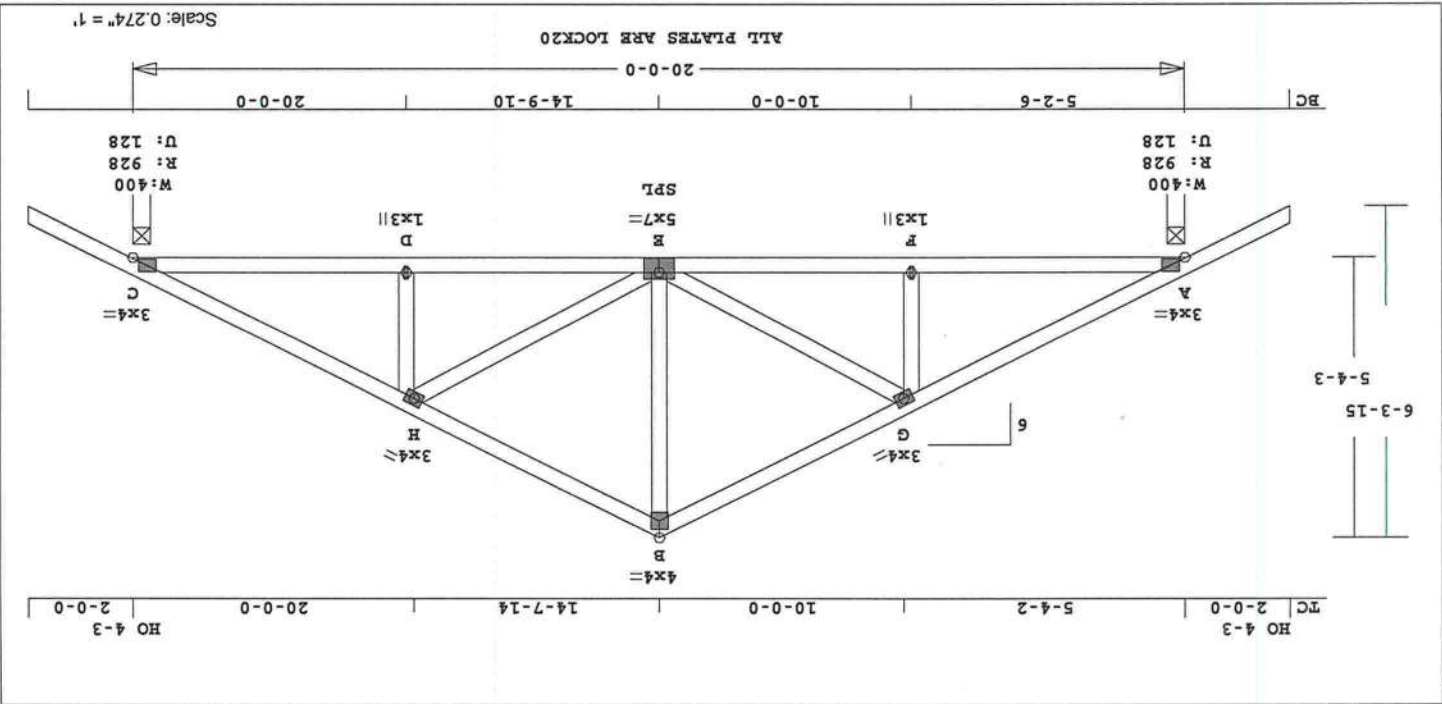
A	-F	0.36	4382	T	0.29	0.07
H	-G	0.38	4348	T	0.29	0.09
F	-H	0.49	4076	T	0.40	0.09
G	-E	0.21	1365	T	0.09	0.12
E	-L	0.13	83	T	0.00	0.13
-----Webs-----						
M	-F	0.00	73	T		
F	-B	0.07	823	T		
B	-H	0.17	1909	T		
I	-G	0.02	463	C		
L	-I	0.12	1302	C		
G	-J	0.04	841	C		
E	-C	0.36	3917	T		
E	-K	0.06	1312	C		
L	-K	0.19	2075	T		
-----Bottom Chords-----						
K	-K	0.12	1534	C	0.00	0.12
Plating conforms to TPI.						
REPORT: NER 691						
ROBBINS ENGINEERING, INC.						
BASED ON SP LUMBER.						
USING GROSS AREA TEST.						
Plate - LOCK 20 GA., Gross Area						
Plate - RHS 20 GA., Gross Area						
Plt Size X Y JST						
A	LOCK	4.0x	6.0	Ctr Ctr	0.66	
M	LOCK	2.0x	4.0	Ctr Ctr	0.41	
B	LOCK	5.0x	9.0	Ctr Ctr	1.00	
I	LOCK	6.0x	6.0	Ctr-1.2	0.51	
J	LOCK	2.0x	4.0	Ctr Ctr	0.41	
K	LOCK	6.0x	8.0	0.5 Ctr Ctr	0.84	
C	LOCK	4.0x	6.0	Ctr Ctr	0.63	
F	LOCK	3.0x	7.0	Ctr Ctr	0.42	
H	LOCK	6.0x	6.0	Ctr Ctr	1.2	0.51
G	LOCK	7.0x	8.0	0.5 Ctr Ctr	0.82	
E	LOCK	3.0x	7.0	Ctr Ctr	0.46	
L	LOCK	2.0x	4.0	Ctr Ctr	0.69	
REVISED BY:						
Robbins Engineering, Inc.						
PO Box 280055						
Tampa, FL 33682						
REFER TO ROBINS ENG. GENERAL						
NOTES AND SYMBOLS SHEET FOR						
ADDITIONAL SPECIFICATIONS.						
NOTES:						
Trusses Manufactured by:						
Mayo Truss Co. Inc.						
Analysts Conforms To:						

Girder Half Hip
 Framing King Jacks
 Jack
 S setback 7 - 0 - 0
 2 COMPLETE TRUSSES REQUIRED.
 Fasten together in staggered
 pattern. (1/2" bolts - OR -
 SDS3 screws - OR - 10d nails
 as each layer is applied.)
 ----Spacing (in) ----
 Rows Nails Screws Bolts
 TC 1 12 24 0
 BC 2 12 24 0
 WB 1 4 4
 plus clusters of nails where
 shown.
 OH Loading
 Soffit psf 2.0
 Design checked for 10 psf non-
 concurrent LL on BC.
 Prevent truss rotation at all
 bearing locations.
 Wind Loads - - ANSI / ASCE 7-02
 Truss is designed as a Main
 Wind-Force Resistance System.
 Wind Speed: 110 mph
 Mean Roof Height: 15-0
 Exposure Category: B
 Occupancy Factor: 1.00
 Building Type: Enclosed
 Zone Location: Exterior
 TC Dead Load: 5.0 psf
 BC Dead Load: 5.0 psf
 Max comp. force 6076 lbs
 Quality Control Factor 1.25

Truss Design Engineer: Vuong Phan
License #: 62111
Address: P.O. Box 280055, Tampa, FL 33682



Job	ELIXSON	U# J#ELIXSON JASON ELIXSON
Mark	B1	5
Quan	Type	Span
PL-H1	6	200000
Left OH	2 - 0 - 0	2 - 0 - 0
Right OH	2 - 0 - 0	2 - 0 - 0
Engineering	T05112418	



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 126.3 LBS
 ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by:

Mayo Truss Co. Inc.

Analysis Conforms To:

FB2004

OH Loading

Soffit psf 2.0

Design checked for 10 psf non-

concurrent LL on BC.

Wind Loads - ANSI / ASCE 7-02

Truss is designed as a Main

Wind-Force Resistance System.

Wind Speed: 110 mph

Mean Roof Height: 15-0

Exposure Category: B

Occupancy Factor: 1.00

Building Type: Exterior

Zone location: Exterior

TC Dead Load: 5.0 psf

BC Dead Load: 5.0 psf

Max comp. force 1311 lbs

Quality Control Factor 1.25

Truss Design Engineer: Vuong Phan

License #: 62111

Address: P.O. Box 280055, Tampa, FL 33682

No. 62111

FLORIDA

PROFESSIONAL ENGINEER

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VUONG PHAN

LICENSE

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No. 62111

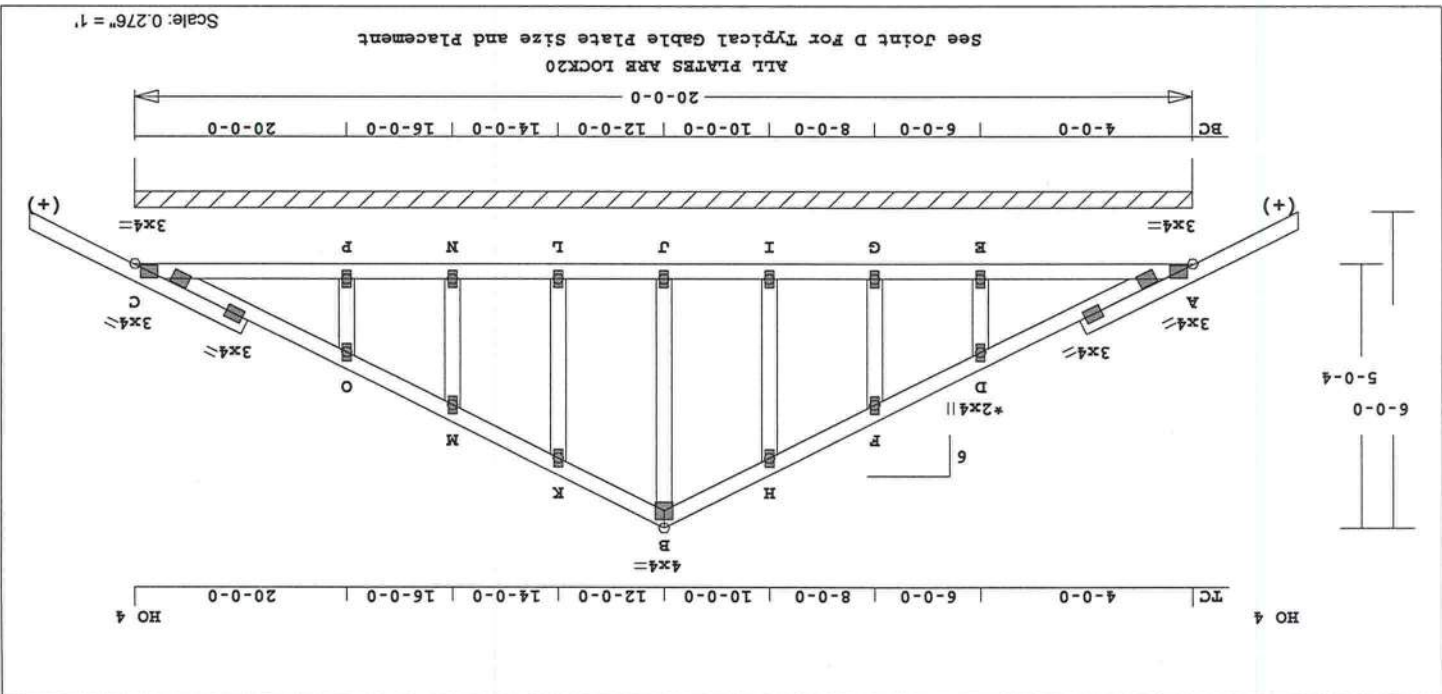
FLORIDA

PROFESSIONAL ENGINEER

STATE OF

VUONG PHAN

Job	ELIXSON	U# J#ELIXSON JASON ELIXSON
Mark	B3	1
Quan	Type	Span
PL-H1	6	200000
Left OH	0	0
Right OH	0	0
Engineering	T05112418	



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 131.5 LBS
 Online Plus -- Version 18.0.014 L-N 0.02 0 T 0.00 0.02
 J-L 0.02 0 T 0.00 0.02
 I-J 0.02 0 T 0.00 0.02
 RUN DATE: 23-NOV-05

CSI -Size- ---Lumber----			
TC	0.06	2x 4	SP-#2
BC	0.03	2x 4	SP-#2
GM	0.02	2x 4	SP-#2
Brace truss as follows:			
O.C.	From	To	
TC Cont.	0-0-0	0-20-0	0
BC Cont.	0-0-0	0-20-0	0
Loading			
Live	Dead	(psf)	
20.0	10.0		
BC	0.0		
Total	40.0		
Spacing	24.0"		
Lumber Duration Factor	1.25		
Plate Duration Factor	1.25		
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	
Plus 6 Wind Load Case(s)			
Plus 1 UBC L Load Case(s)			
Ut React Uplift Size Req'd	Lbs	In-Sx	In-Sx
1508	201	Hx =	87
Cont. Brg	0-0-0	0-20-0	0
Member	CSI	P Lbs	Ax1-CSI-Bnd
---Top Chords----			
A-D	0.06	50 C	0.00 0.06
D-F	0.06	29 C	0.00 0.06
F-H	0.03	25 T	0.00 0.03
H-B	0.03	60 T	0.00 0.03
B-K	0.03	60 T	0.00 0.03
K-M	0.03	25 T	0.00 0.03
M-O	0.06	29 C	0.00 0.06
O-C	0.06	50 C	0.00 0.06
---Bottom Chords----			
A-E	0.03	0 T	0.00 0.03
E-G	0.03	0 T	0.00 0.03
G-I	0.02	0 T	0.00 0.02

REVIEWED BY:
 Robbins Engineering, Inc.
 PO Box 280055

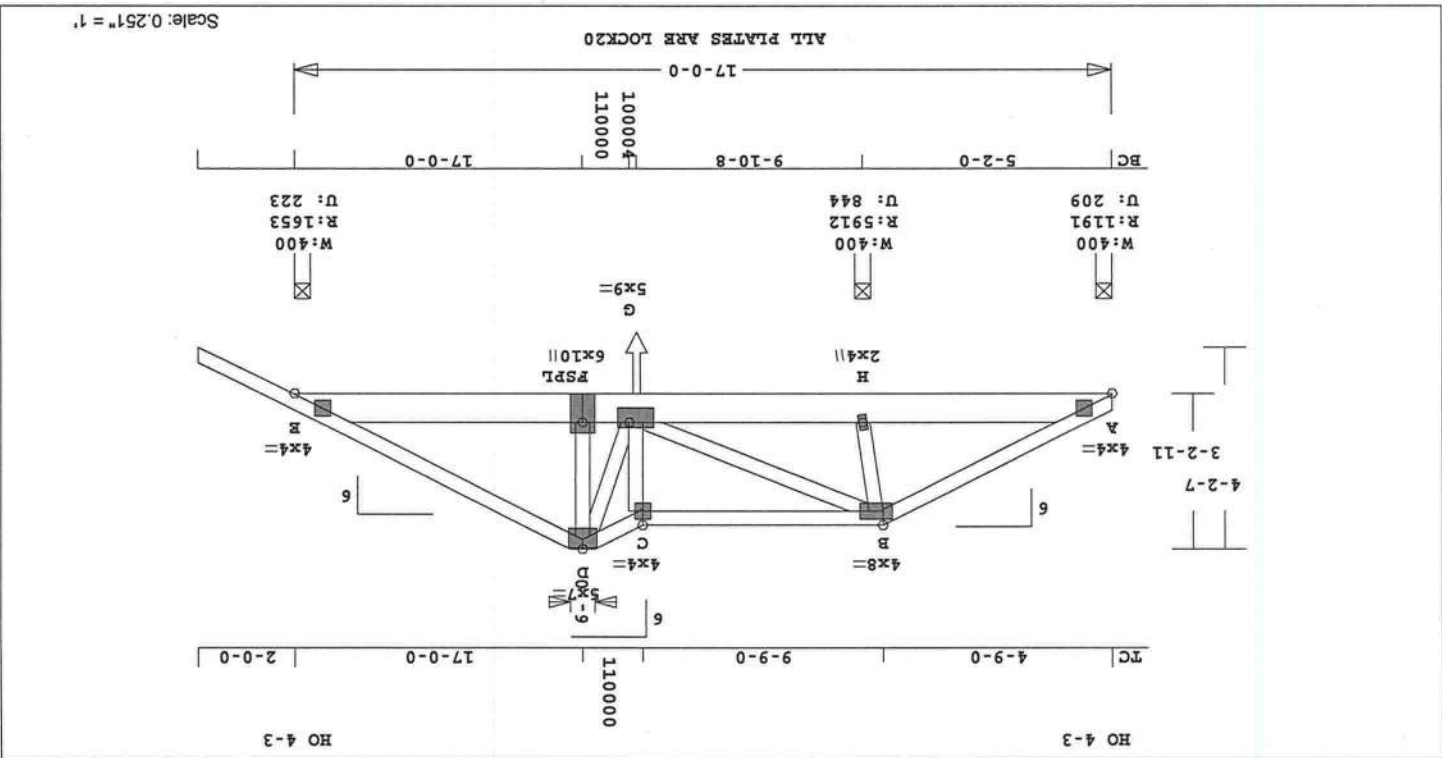
P	LOCK	2.0x 4.0	Ctr	Ctr	0.00
N	LOCK	2.0x 4.0	Ctr	Ctr	0.00
L	LOCK	2.0x 4.0	Ctr	Ctr	0.00
J	LOCK	2.0x 4.0	Ctr	Ctr	0.00
I	LOCK	2.0x 4.0	Ctr	Ctr	0.00
G	LOCK	2.0x 4.0	Ctr	Ctr	0.00
E	LOCK	2.0x 4.0	Ctr	Ctr	0.00
C	LOCK	3.0x 4.0	Ctr	Ctr	0.76
O	LOCK	2.0x 4.0	Ctr	Ctr	0.00
M	LOCK	2.0x 4.0	Ctr	Ctr	0.00
K	LOCK	2.0x 4.0	Ctr	Ctr	0.00
B	LOCK	4.0x 4.0	Ctr	Ctr	0.64
H	LOCK	2.0x 4.0	Ctr	Ctr	0.00
F	LOCK	2.0x 4.0	Ctr	Ctr	0.00
D	LOCK	2.0x 4.0	Ctr	Ctr	0.00
A	LOCK	3.0x 4.0	Ctr	Ctr	0.76
Ut Type	Plt Size	X	Y	JSI	
Plate - RHS	20 Ga	Gross Area			
Plate - LOCK	20 Ga	Gross Area			
USING GROSS AREA TEST.					
BASED ON SP LUMBER					
ROBBINS ENGINEERING, INC.					
REPORT: NER 691					
PLATING CONFORMS TO TPI.					
Plates for each ply each face.					
TL Defl	0.00"	In A - E	L/999		
Shear // Grain	In A - D	0.10			
TL Defl	0.00"	In A - E	L/999		
P-O	0.01	159 C			
N-M	0.01	107 C			
L-K	0.02	126 C			
J-B	0.02	91 C			
I-H	0.02	126 C			
G-F	0.01	107 C			
E-D	0.01	159 C			
---Gable Webs----					
P-C	0.03	0 T	0.00 0.03		
N-P	0.03	0 T	0.00 0.03		
L-N	0.02	0 T	0.00 0.02		
J-L	0.02	0 T	0.00 0.02		
I-J	0.02	0 T	0.00 0.02		

NOTES:
 Trusses Manufactured by:
 Mayo Truss Co. Inc.
 Analysis Confirms To:
 FB22004
 Design checked for 10 psf non-concurrent LL on BC.
 Refer to Gen Det 3 series for web bracing and plating.
 Wind loads - ANSI / ASCE 7-02
 Truss is designed as a Main
 Wind-Force Resistance System.
 Wind Speed: 110 mph
 Mean Roof Height: 15-0
 Exposure Category: B
 Occupancy Factor: 1.00
 Building Type: Enclosed
 Zone Location: Exterior
 TC Dead Load: 5.0 psf
 BC Dead Load: 5.0 psf
 Max comp. force 159 lbs
 Quality Control Factor 1.25

Truss Design Engineer: Vuong Phan
 License #: 62111
 Address: P.O. Box 280055, Tampa, FL 33682



U # J#ELIXSON JASON ELIXSON										
Job	ELIXSON	CI	Quan	Type	Span	Pl-HI	Left OH	Right OH	Engineering	T05112418
Mark			1*2P	SP	170000	6	0	2 - 0 - 0		



```
Online plus -- Version 18.0.014
RUN DATE: 22-NOV-05
*****
* 2-ply Truss
*****
```

CS1	Size	---	Lumber	----
TC	0.47	2x	4	SP-#2
BC	0.66	2x	8	SP-#2
WB	0.38	2x	4	SP-#2

PLEASE CLASS AS FOLLOWS:

O.C.	From	To
TC Cont.	0-0-0	17-0-0
BC Cont.	0-0-0	17-0-0

Dead	Live	Dead	Live
10.0	20.0	10.0	20.0
0.0	0.0	10.0	0.0
40.0	20.0	24.0	1.25
Spacing	Number of Poles	Spacing	Number of Poles

Plate Duration Factor 1.25
TC Rp=1.00 Rc=1.00 Rt=1.00
BC Rp=1.00 Rc=1.00 Rt=1.00

Load Case #	1	Standard Loading
Lumber Duration Factor	1.25	
Plate Duration Factor	1.25	
Plf - Live	Dead	From
IC V	40	20
To	0.0	17.0

BC V	1180	1180	9.91	CL-LB
BC V	277	277	0.01	8.91
BC V	0	0	0.01	1.10

Plus	6 Wind Load Case(s)
Plus	1 UBC TL Load Case(s)

A	1192	210	4 - 0	1 - 0	-46
	Lbs	Lbs	In-Sx	In-Sx	HZ =

E	1653	224	4-0	Hz =	50
---	------	-----	-----	------	----

Model	CDI	1	MS	1	MS	CDI	MS	CDI	MS
-----Top Chords-----									
A-B	0.23	214	T	0.02	0.21				
B-C	0.47	341	C	0.02	0.45				

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[illegible]

TL Defl -0.08" in G -F	TL Defl -0.04" in G -F	Shear // Grain in A -H
L/999	L/999	0.60

PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.

Plate -	RHS	20 Ga, Gross Area	Plt Size	X	Y	JSI
ut Type						
A LOCK	4.0x	4.0	ctr	ctr	0.80	
B LOCK	4.0x	8.0	ctr	ctr	0.86	

G	LOCK	5.0x	9.0	CTFR-1.1	0.94
H	LOCK	2.0x	4.0	CTFR	0.37
E	LOCK	4.0x	4.0	CTFR	0.80
D	LOCK	5.0x	7.0	CTFR-0.3	0.88
C	LOCK	4.0x	4.0	CTFR	0.80

REVIEWED BY:

ROBBINS ENGINEERING, INC.
PO Box 280055
Tampa, FL 33682

NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

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

2 COMPLETE TRUSSES REQUIRED.
Fasten together in staggered pattern. (1/2" bolts - OR-

engineering - Portrait 11/22/2005 3:23:10 PM Page 1

as each layer is applied.

 Rows Nails Screws Bolts

BC	2	11	24	0
WB	1	4	4	
				Plus clusters of nails where

OH Loading
Softt psf 2.0
Design checked for 10 psf non-
concurrent LL on BC.
Prevent truss rotation at all

Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main
Wind-Force Resistance System.

Wind speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor: 1.00
Building Type: Enclosed

TC Dead Load :	5.0 psf
BC Dead Load :	5.0 psf
User-defined wind-exposed BC	

	0 - 0 - 0	5 - 2 - 0	Max comp. force 3755 lbs	Quality Control Factor 1.25
--	-----------	-----------	-----------------------------	-----------------------------

Truss Design Engineer: Vuong Phan

Address: P.O. Box 280055, Tampa, FL

100-443887-100

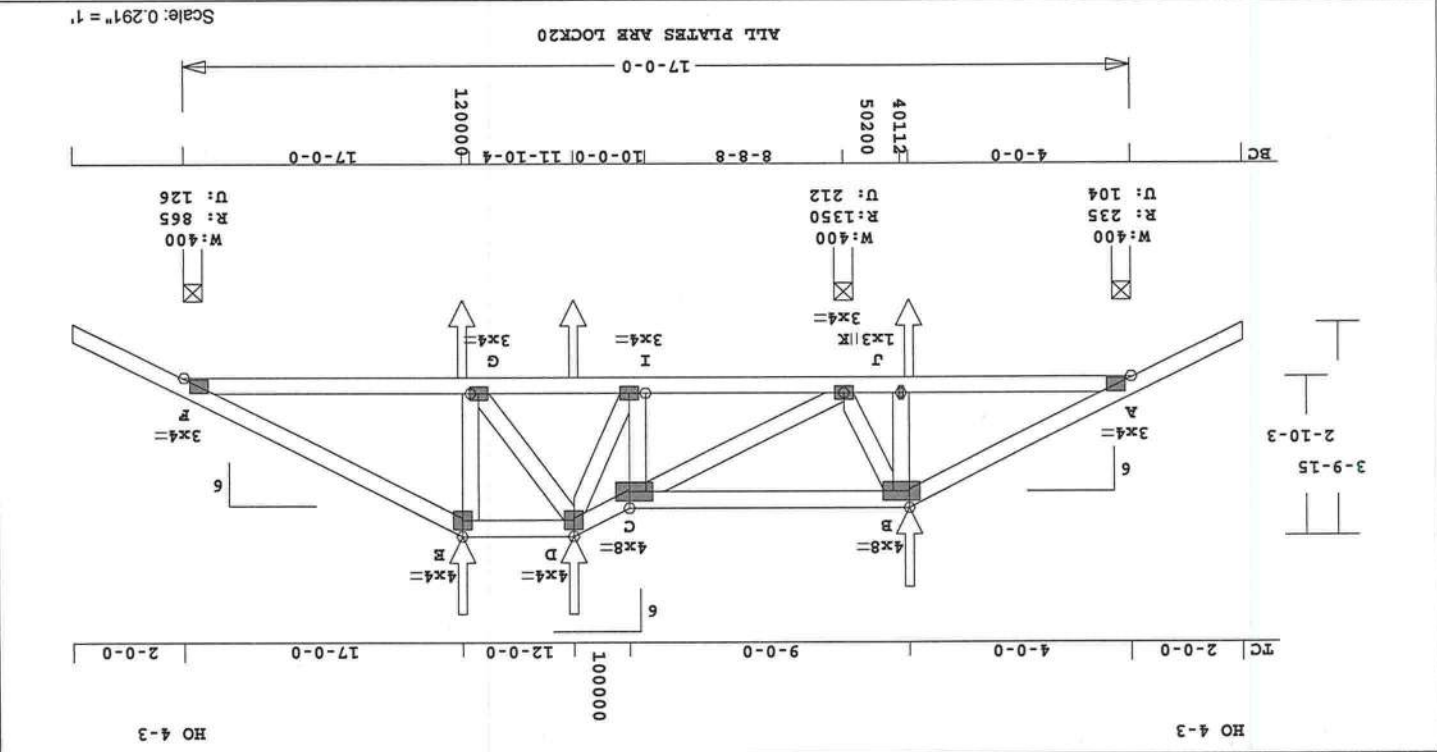
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STATE OF
FLORIDA

CONFIDENTIAL

Date Sealed: 11/23/2005

Job	Mark	Quan	Type	Span	Pl-HI	Left OH	Right OH	Engineering
ELIXSON	C2	1	SP	170000	6	2-0-0	2-0-0	T05112418



Online Plus -- Version 18.0.014
 RUN DATE: 22-NOV-05

CSI -Size- Lumber----

TC 0.30 2x 4 SP-#2
 BC 0.36 2x 4 SP-#2

MB 0.35 2x 4 SP-#2

Brace truss as follows:

O.C. From To

TC Conf. 0-0 0 17-0-0

BC Conf. 0-0 0 17-0-0

Loading Live Dead (psf)

TC 20.0 10.0

BC 0.0 10.0

Total 20.0 20.0

Spacing 24.0"

Lumber Duration Factor 1.25

Plate Duration Factor 1.25

TC Pb=1.00 Fc=1.00 Ft=1.00

BC Pb=1.00 Fc=1.00 Ft=1.00

Load Case # 1 Standard Loading

Lumber Duration Factor 1.25

Plate Duration Factor 1.25

plus 6 Wind Load Case(s)

plus 1 UBC LL Load Case(s)

ut React Uplift Size Req'd

A 235 Lbs In-Sx In-Sx

K 1350 213 4-0 1-7

F 865 126 4-0 1-0

HZ = 42

REVIEWED BY:
 Robbins Engineering, Inc.
 PO Box 280055
 Tampa, FL 33682

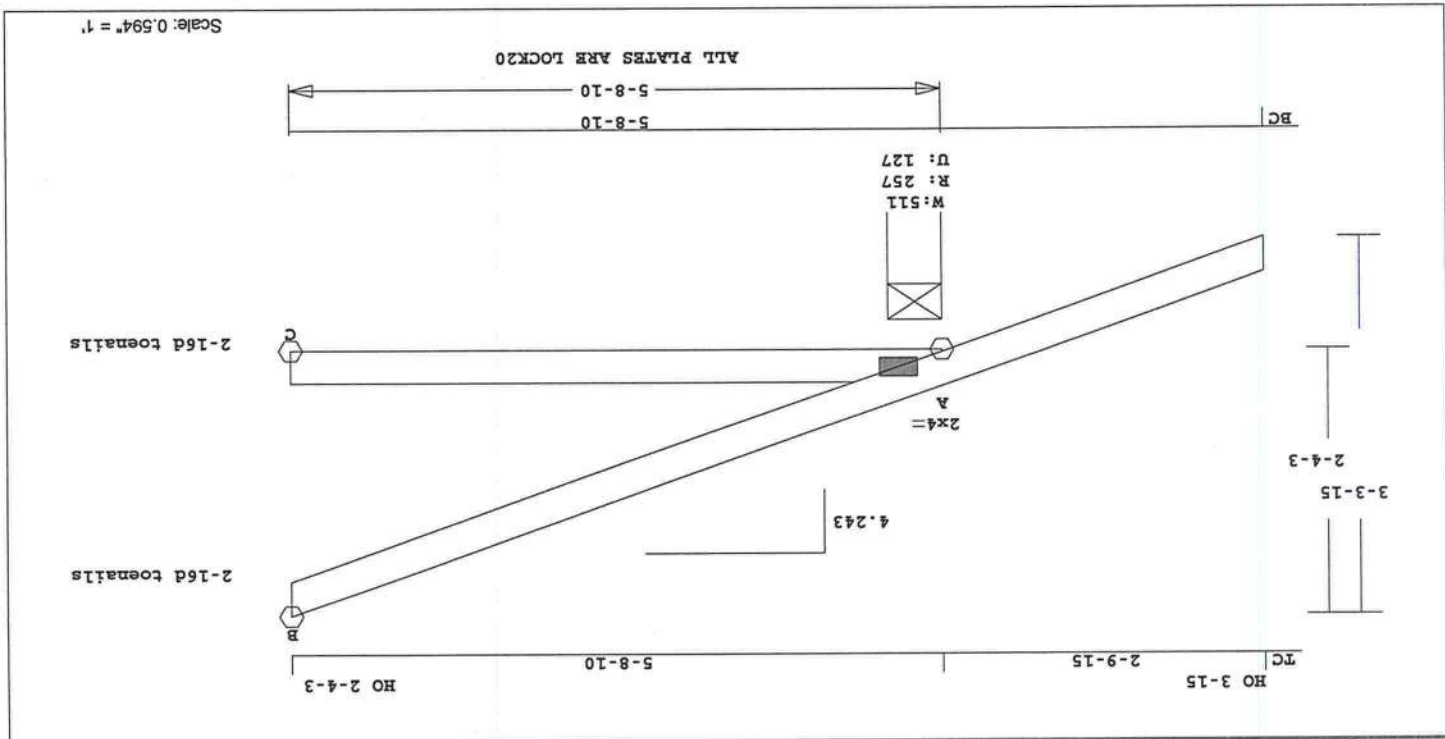
Member CSI P Lbs Axl-CSI-Bnd
 Top Chords-----
 A-B 0.15 121 T 0.01 0.14
 B-C 0.30 350 T 0.06 0.24
 C-D 0.09 1141 C 0.01 0.08
 D-E 0.06 1058 C 0.00 0.06
 E-F 0.20 1187 C 0.01 0.19
 Bottom Chords-----
 A-J 0.10 104 C 0.00 0.10
 J-K 0.11 113 C 0.00 0.11
 K-L 0.29 998 T 0.18 0.11
 L-G 0.36 913 T 0.16 0.20
 G-F 0.31 1058 T 0.19 0.12
 Webs-----
 J-B 0.02 182 T
 B-K 0.06 635 C
 K-C 0.35 1521 C
 I-C 0.01 103 T
 I-D 0.03 189 T
 D-G 0.04 231 T
 G-E 0.03 247 T
 Plates for each ply each face.
 PLATING CONFORMS TO TPI.
 REPORT: NER 691
 ROBBIENS ENGINEERING, INC.
 BASED ON SP LUMBER
 USING GROSS AREA TEST.
 Plate - LOCK 20 Ga, Gross Area
 Plate - RHS 20 Ga, Gross Area
 ut Type Plt Size X Y JSI
 A LOCK 3.0x 4.0 Ctr Ctr 0.72
 B LOCK 4.0x 8.0 Ctr Ctr 0.80
 C LOCK 4.0x 8.0-1.0 Ctr 0.80
 D LOCK 4.0x 4.0 Ctr Ctr 0.80
 E LOCK 4.0x 4.0 Ctr Ctr 0.80
 F LOCK 3.0x 4.0 Ctr Ctr 0.72
 J LOCK 1.0x 3.0 Ctr Ctr 0.81
 K LOCK 3.0x 4.0 Ctr Ctr 0.44
 I LOCK 3.0x 4.0 Ctr Ctr 0.48
 G LOCK 3.0x 4.0 Ctr Ctr 0.48

REFER TO ROBBIENS ENG. GENERAL
 NOTES AND SYMBOLS SHEET FOR
 ADDITIONAL SPECIFICATIONS.
 NOTES:
 Trusses Manufactured by:
 Mayo Truss Co. Inc.
 Analysis Conforms To:
 FBC2004
 OH Loading
 Soffit psf 2.0
 Design checked for 10 psf non-
 concurrent LL on BC.
 Wind Loads - ANSI / ASCE 7-02
 Truss is designed as a Main
 Wind-Force Resistance System.
 Wind Speed:
 Mean Roof Height: 15-0
 Exposure Category: B
 Occupancy Factor: 1.00
 Building Type: Enclosed
 Zone location: Exterior
 TC Dead Load: 5.0 psf
 BC Dead Load: 5.0 psf
 User-defined wind-exposed BC
 regions --From-- --To--
 0-0-0 5-2-0
 Max comp. force 1521 Lbs
 Quality Control Factor 1.25

Truss Design Engineer: Vuong Phan
 License #: 62111
 Address: P.O. Box 280055, Tampa, FL 33682



Job	Mark	Quan	Type	Span	Pl-H1	Left OH	Right OH	Engineering
ELIXSON	CJ3	1	SP	50810	4.243	2-9-15	0	T05112418
U# J#ELIXSON JASON ELIXSON								



Robbins Engineering, Inc./Online Plus" APPROX. TRUSS WEIGHT: 28.1 LBS

Member CSI P Lbs AXI-CSI-Bnd Design checked for 10 psi non-concurrent LL on BC. Use properly rated hangers for loads framing into girder truss. Wind loads - ANSI / ASCE 7-02 Truss is designed as a Main Wind-Force Resistance System. Wind Speed: 110 mph Mean Roof Height: 15-0 Exposure Category: B Occupancy Factor: 1.00 Building Type: Enclosed Zone Location: Exterior TC Dead Load: 5.0 psf BC Dead Load: 5.0 psf User-defined wind-exposed BC regions --From-- --To-- 0-0-0 5-8-10 Max comp. force 23 lbs Quality Control Factor 1.25

CS1 -Size- ---Lumber---
TC 0.19 2x 4 SP-#2
BC 0.12 2x 4 SP-#2
Brace truss as follows:
O.C. From To
TC Cont. 0-0-0 5-8-10
BC Cont. 0-0-0 5-8-10
Loading Live Dead (psf)
TC 20.0 10.0
BC 0.0 10.0
Total 20.0 20.0
Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.00 Fc=1.00 Ft=1.00
BC Fb=1.00 Fc=1.00 Ft=1.00
Load Case # 1 Girder Loading
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
plf - Live Dead From To
TC V 40 20 0.0 5.7'
BC V 0 20 0.0 5.7'
TC V -40 -20 0.0 5.7'
BC V 3 1 -20 0.0 5.7'
BC V 0 0 -20 0.0 5.7'
plus 5 Wind Load Case(s)
plus 1 UBC LL Load Case(s)

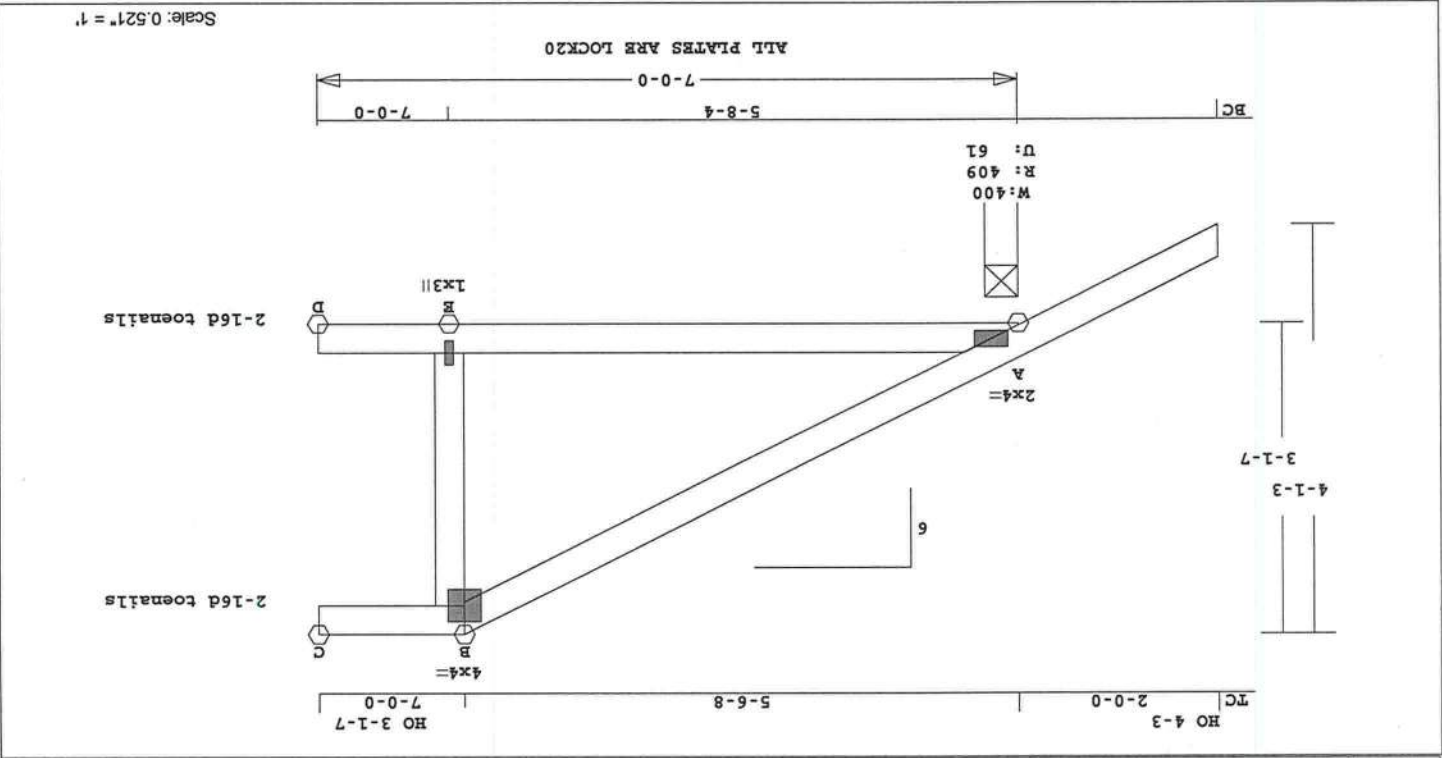
NOTES:
Trusses Manufactured by: Mayo Truss Co. Inc.
Analysis Conforms To: FB22004
Girder King Jack
Loading TC and BC
Setback 4'-0"-0
OH Loading
Soffit psf 2.0
REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.
For proper installation of toe-nails, refer to the 2001 National Design Specification (NDS) for Wood Construction

Robbins Engineering, Inc./Online Plus" © 1996-2005 Version 18.0.014 Engineering - Portrait 11/22/2005 3:23:11 PM Page 1
Date Scaled: 11/23/2005



Truss Design Engineer: Vuong Phan
License #: 62111
Address: P.O. Box 280055, Tampa, FL 33682

Job	ELIXSON	U# J#ELIXSON JASON ELIXSON
Mark	J1A	
Quan	1	
Type	HHIP	
Span	70000	
Pl-H1	6	
Left OH	2-0-0	
Right OH	0	
Engineering	T05112418	



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 37.0 LBS

NOTES:

Trusses Manufactured by:

Mayo Truss Co. Inc.

Analysis Conforms To:

FB22004

OH Loading

Soffit psf 2.0

Design checked for 10 psf non-

concurrent TL on BC.

Wind loads - ANSI / ASCE 7-02

Truss is designed as a Main

Wind-Force Resistance System.

Wind Speed:

110 mph

Mean Roof Height: 15-0

Exposure Category: B

Occupancy Factor: 1.00

Building Type: Enclosed

Zone location: Exterior

TC Dead Load: 5.0 psf

BC Dead Load: 5.0 psf

Max comp. force

140 Lbs

Quality Control Factor 1.25

Truss Design Engineer: Vuong Phan

License #: 62111

Address: P.O. Box 280055, Tampa, FL 33682



Date Scaled: 11/23/2005

Online Plus -- Version 18.0.014

RUN DATE: 22-NOV-05

CSI -Size- -Lumber-

TC 0.41 2x 4 SP-#2

BC 0.42 2x 4 SP-#2

WB 0.01 2x 4 SP-#2

Brace truss as follows:

O.C. From To

TC Cont. 0-0-0 7-0-0

BC Cont. 0-0-0 7-0-0

Loading Live Dead (psf)

TC 20.0 10.0

BC 0.0 10.0

Spacing Total 20.0 20.0

24.0"

Lumber Duration Factor 1.25

Plate Duration Factor 1.25

TC Fb=1.15 Fc=1.10 Ft=1.10

BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 6 Wind Load Case(s)

Plus 1 UBC LL Load Case(s)

It React Uplift Size Req'd

Lbs In-Sx In-Sx

A 410 61 4-0 1-0

Hx = 84

C 85 12 3-8 1-0

Hx = 57

D 193 50 3-8 1-0

Member CSI P Lbs Ax1-CSI-Bnd

-----Top Chords-----

A - B 0.41 37 T 0.00 0.41

For proper installation of

toe-nails, refer to the 2001

National Design Specification

(NDS) for Wood Construction

REVIEWED BY:

Robbins Engineering, Inc.

PO Box 280055

Tampa, FL 33682

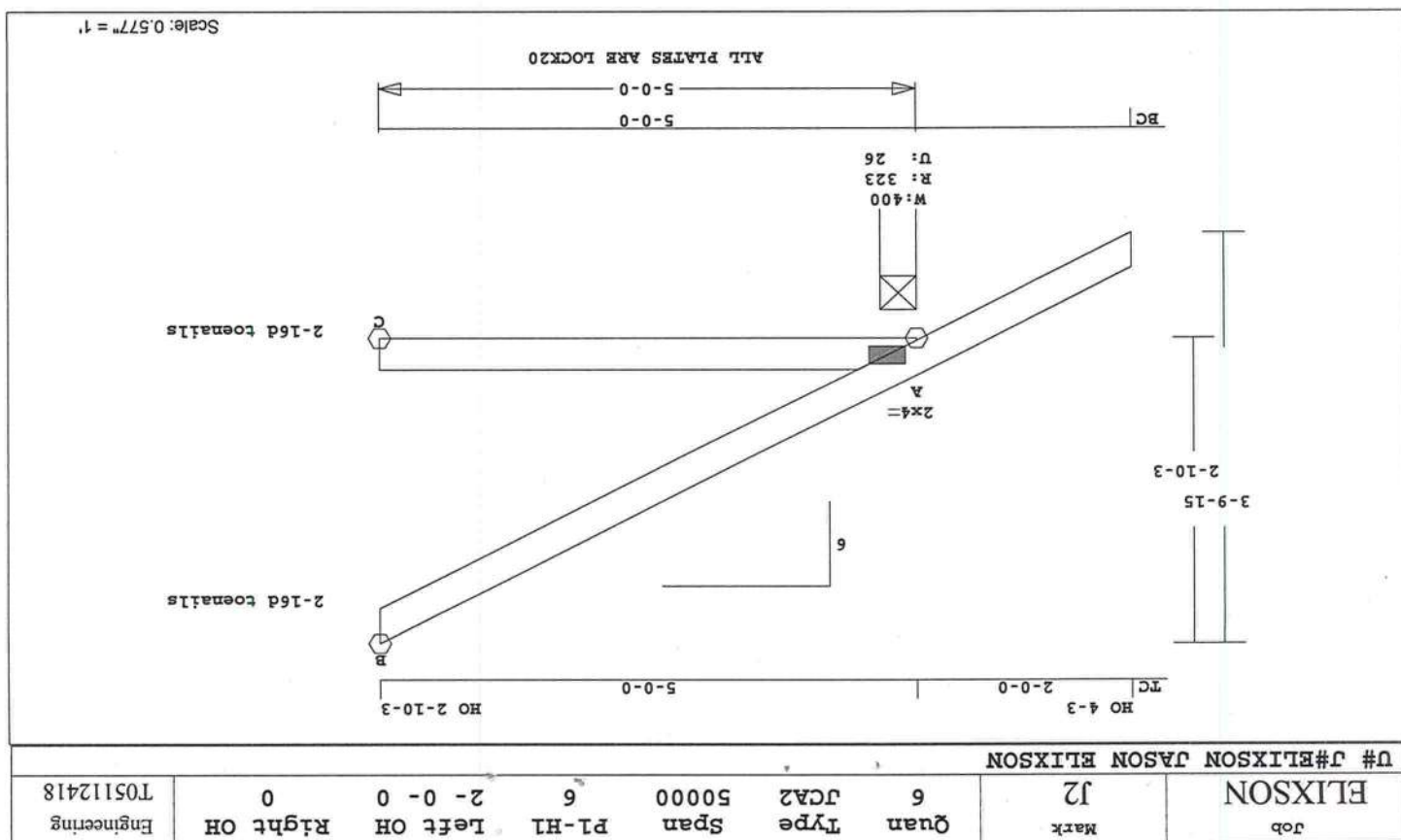
REFER TO ROBBINS ENG. GENERAL

NOTES AND SYMBOLS SHEET FOR

ADDITIONAL SPECIFICATIONS.

concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main
Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone Location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 38 lbs
Quality Control Factor 1.25

Truss Design Engineer: Vuong Phan
License #: 62111
Address: P.O. Box 280055, Tampa, FL 33682



Truss Design Engineer: Vuong Phan
License #: 62111
Address: P.O. Box 280055, Tampa, FL 33682



Plus	5 Wind Load Case(s)	Plus	1 UBC TL Load Case(s)
ut	React	Uplift	Size Req'd
	Lbs	Lbs	In-Sx
A	243	53	4- 0 1- 0
			HZ = 46
B	88	43	3- 8 1- 0
C	56	20	3- 8 1- 0
			HZ = 30
Membr	CSI	P Lbs	Ax1-CSI-Bnd
-----Top Chords-----			
A - B	0.06	25	C 0.00 0.06
-----Bottom Chords-----			

CSI -Size-	SP-#2	SP-#2
TC	0.06	2x 4
BC	0.05	2x 4

Brace truss as follows:

O.C.	From	To
TC Cont.	0 - 0 - 0	3 - 0 - 0
BC Cont.	0 - 0 - 0	3 - 0 - 0

Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0

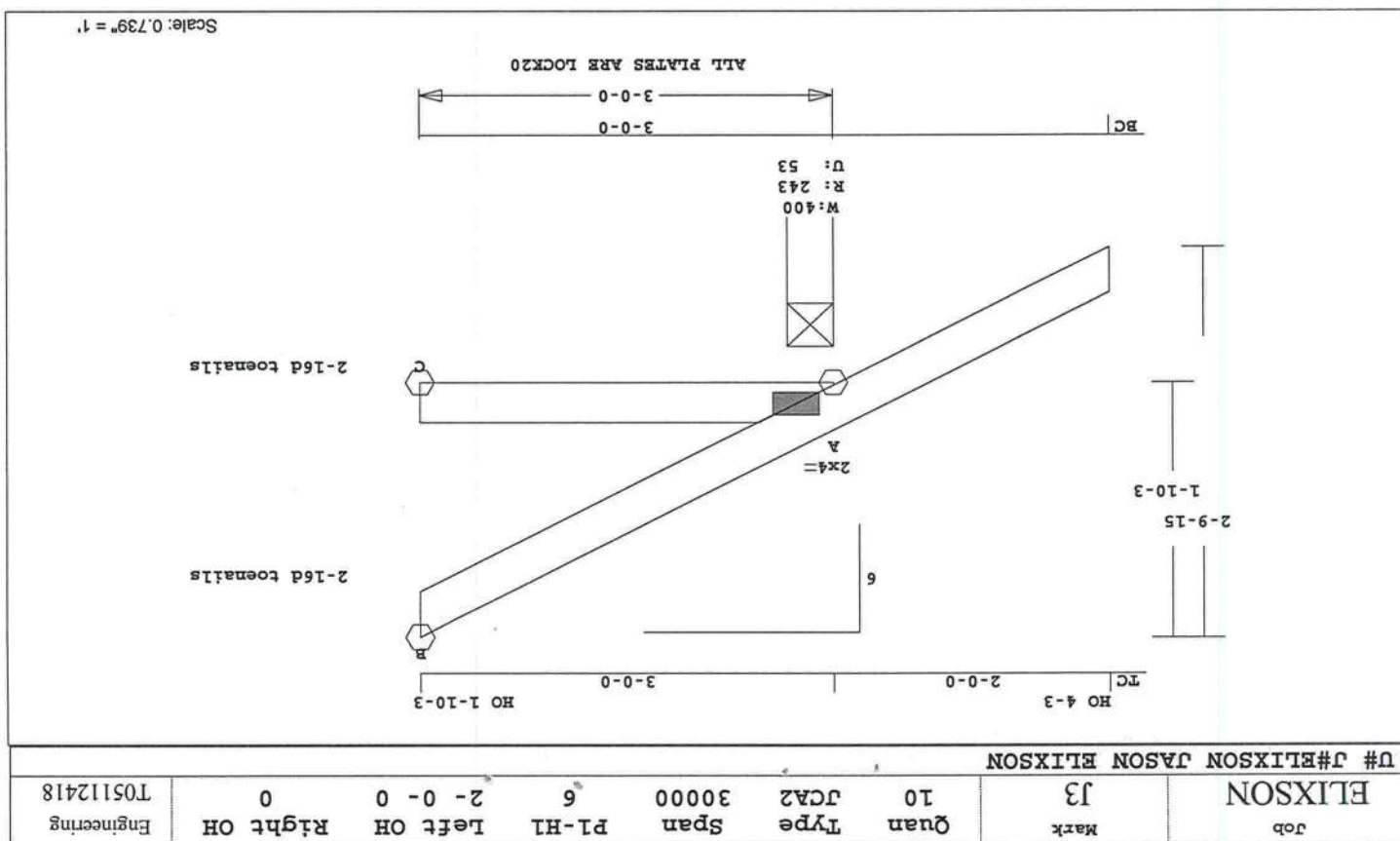
Spacing	Lumber Duration Factor	Plate Duration Factor
24.0"	1.25	1.25

TC Fb=1.15	FC=1.10	FT=1.10
BC Fb=1.10 <td>FC=1.10 <td>FT=1.10</td> </td>	FC=1.10 <td>FT=1.10</td>	FT=1.10

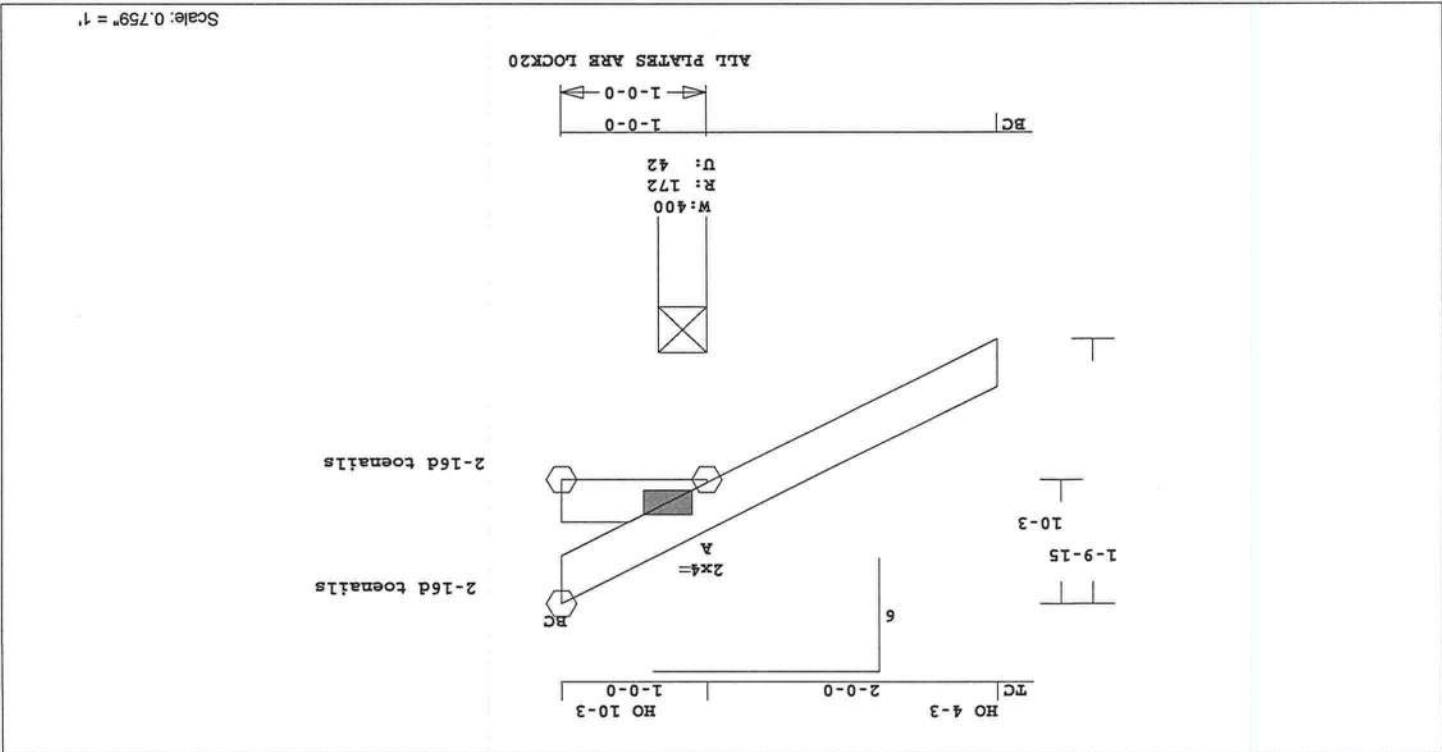
Online Plus -- Version 18.0.014
RUN DATE: 22-NOV-05

30 T 0.00 0.05
 A - C 0.05
 ing, Inc./Online Plus
 APPROX. TRUSS
 LT Defl 0.00" in A - C L/999
 LT Defl 0.00" in A - C L/999
 Shear // Grain in A - B 0.08
 Plates for each ply each face.
 PLATING CONFORMS TO TPI.
 REPORT: NER 691
 ROBINS ENGINEERING, INC.
 BASED ON SP LUMBER
 USING GROSS AREA TEST.
 Plate - LOCK 20 Ga, Gross Area
 Plate - RHS 20 Ga, Gross Area
 Ut Type Plt Size X Y JSI
 A LOCK 2.0x 4.0 Ctr Ctr 0.65
 REVIEWED BY:
 Robbins Engineering, Inc.
 PO Box 280055
 Tampa, FL 33682

Wind Loads - ANSI / ASCE 7-02
Truss is designed as a Main
Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor: 1.00
Building Type: Enclosed
Zone Location: Exterior
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
User-defined wind-exposed BC
regions --From-- 0 - 0 - 0
Max comp. force 25 lbs
Quality Control Factor 1.25



Job	Mark	Quan	Type	Span	Pl-HI	Left OH	Right OH	Engineering
ELIXSON	J4	10	JCA2	10000	6	2 - 0 - 0	0	T05112418
U# J#ELIXSON JASON ELIXSON								



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 8.5 LBS
 Truss is designed as a Main
 Wind-Force Resistance System.
 Wind Speed: 110 mph
 Mean Roof Height: 15-0
 Exposure Category: B
 Occupancy Factor: 1.00
 Building Type: Enclosed
 Zone Location: Exterior
 TC Dead Load: 5.0 psf
 BC Dead Load: 5.0 psf
 User-defined wind-exposed BC regions --From-- --To--
 0-0-0 1-0-0
 Max comp. force 5 Lbs
 Quality Control Factor 1.25

Plates for each ply each face.
 PLATING CONFORMS TO TPI.
 REPORT: NER 691
 ROBINS ENGINEERING, INC.
 BASED ON SP LUMBER
 USING GROSS AREA TEST.
 Plate - LOCK 20 Ga, Gross Area
 Plate - RHS 20 Ga, Gross Area
 Jt Type Plt Size X Y JSI
 A LOCK 2.0x 4.0 Ctr Ctr 0.65
 REVIEWED BY:
 Robbins Engineering, Inc.
 PO Box 280055
 Tampa, FL 33682
 REFER TO ROBINS ENG. GENERAL
 NOTES AND SYMBOLS SHEET FOR
 ADDITIONAL SPECIFICATIONS.

Online Plus -- Version 18.0.014 Shear // Grain in A - B 0.02
 TL Defl 0.00" in A - C L/999
 TL Defl 0.00" in A - C L/999
 CSI -Size- ---Lumber---
 TC 0.00 2x 4 SP-#2
 BC 0.00 2x 4 SP-#2
 Brace truss as follows:
 O.C. From To
 TC Cont. 0-0-0 1-0-0
 BC Cont. 0-0-0 1-0-0
 Loading Live Dead (psf)
 TC 20.0 10.0
 BC 0.0 10.0
 Total 20.0 20.0
 Spacing 24.0"
 Lumber Duration Factor 1.25
 Plate Duration Factor 1.25
 TC Fb=1.15 Fc=1.10 Ft=1.10
 BC Fb=1.10 Fc=1.10 Ft=1.10

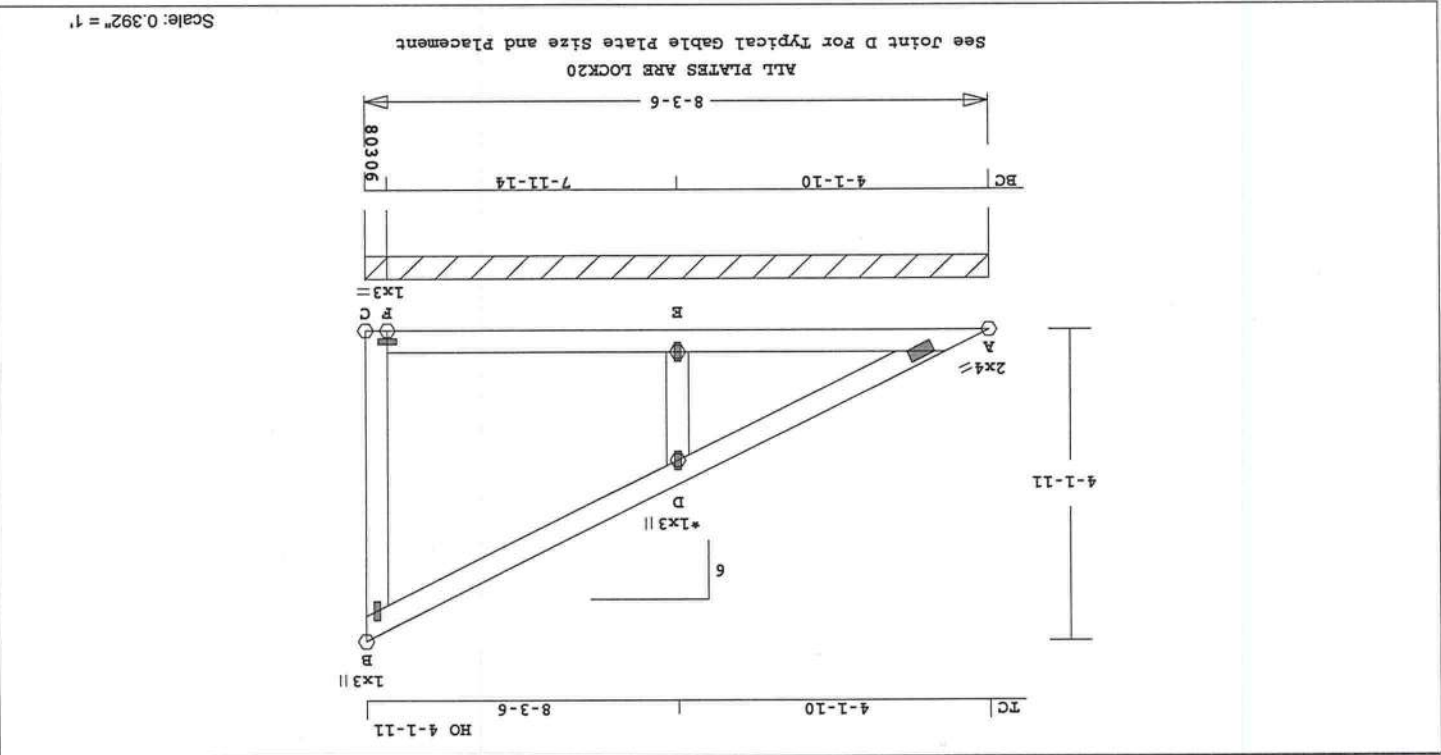
Plus 5 Wind Load Case(s)
 Plus 1 UBC LL Load Case(s)
 Jt React Uplift Size Req'd
 Lbs In-Sx In-Sx
 A 172 43 3-8 1-0
 Hz = 14
 B 20 10 1-8 1-0
 C 14 6 1-8 1-0
 Member CSI P Lbs Axl-CSI-Bnd
 A-B 0.00 5 C
 A-C 0.00 8 T

For proper installation of
 toe-nails, refer to the 2001
 National Design Specification
 (NDS) for Wood Construction
 NOTES:
 Trusses Manufactured by:
 Mayo Truss Co. Inc.
 Analysis Conforms To:
 FBC2004
 OH Loading
 Soffit psf 2.0
 Design checked for 10 psf non-
 concurrent LL on BC.
 Wind Loads - ANSI / ASCE 7-02



Truss Design Engineer: Vuong Phan
 License # 62111
 Address: P.O. Box 280055, Tampa, FL 33682

Job	Mark	Quan	Type	Span	Pl-H1	Left OH	Right OH	Engineering
ELIXSON	VI	1	VLM.SB	80306	6	0	0	T05112418



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 41.4 LBS
 Analysis Conforms To: FB02004
 Design checked for 10 psf non-concurrent LL on BC.
 Wind Loads - ANSI / ASCE 7-02
 Truss is designed as a Main Wind-Force Resistance System.
 Wind Speed: 110 mph
 Mean Roof Height: 15'-0
 Exposure Category: B
 Occupancy Factor: 1.00
 Building Type: Enclosed
 Zone location: Exterior
 TC Dead Load: 5.0 psf
 BC Dead Load: 5.0 psf
 Max comp. force 257 Lbs
 Quality Control Factor 1.25

CSI -Size- -Lumber-
 TC 0.16 2x 4 SP-#2
 BC 0.09 2x 4 SP-#2
 GW 0.02 2x 4 SP-#2
 Brace truss as follows:
 O.C.
 From To
 TC Cont. 0-0-0 8-3-6
 BC Cont. 0-0-0 8-3-6
 Loading Live Dead (psf)
 TC 20.0 10.0
 BC 0.0 10.0
 Total 20.0 20.0
 Spacing 24.0"
 Lumber Duration Factor 1.25
 Plate Duration Factor 1.25
 TC Fb=1.15 Fc=1.10 Ft=1.10
 BC Fb=1.10 Fc=1.10 Ft=1.10

REPORT: NER 691
 ROBINS ENGINEERING, INC.
 BASED ON SP LUMBER
 USING GROSS AREA TEST.
 Plate - LOCK 20 ga, Gross Area
 Plate - RHS 20 ga, Gross Area
 Jt Type Plt Size X Y JSI
 A LOCK 2.0x 4.0 Ctr Ctr 0.72
 D LOCK 1.0x 3.0 Ctr Ctr 0.75
 B LOCK 1.0x 3.0 Ctr Ctr 0.75
 E LOCK 1.0x 3.0 Ctr Ctr 0.75
 F LOCK 1.0x 3.0 Ctr Ctr 0.75

Plus 5 Wind Load Case(s)
 Plus 1 UBC LL Load Case(s)

Jt React Uplift Size Req'd
 Lbs In-Sk In-Sk
 Cont. Brg 0-0-0 to 7-11-14
 610 83 Hz = 117
 Cont. Brg 0-0-0 to 8-3-6
 403 0 Hz = 231
 F 0 1-8 1-0
 Membr CSI P Lbs Axl-Csi-Bnd
 -----Top Chords-----
 A-D 0.16 102 C 0.00 0.16

REVISED BY:
 Robbins Engineering, Inc.
 PO Box 280055
 Tampa, FL 33682
 REFERENCE TO ROBINS ENG. GENERAL
 NOTES AND SYMBOLS SHEET FOR
 ADDITIONAL SPECIFICATIONS.
 Trusses Manufactured by:
 Mayo Truss Co. Inc.



Truss Design Engineer: Vuong Phan
 License # 62111
 Address: P.O. Box 280055, Tampa, FL 33682

Brace truss as follows:									
O.C.		From		To		TC Conf.		BC Conf.	
TC	0.22	2x 4	SP-#2	0-0	0	6-7	14	0-0	0
BC	0.09	2x 4	SP-#2	0-0	0	6-7	14	0-0	0
GM	0.02	2x 4	SP-#2	0-0	0	6-7	14	0-0	0
CSI-Size- -----Lumber-----									

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

REFER TO ROBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

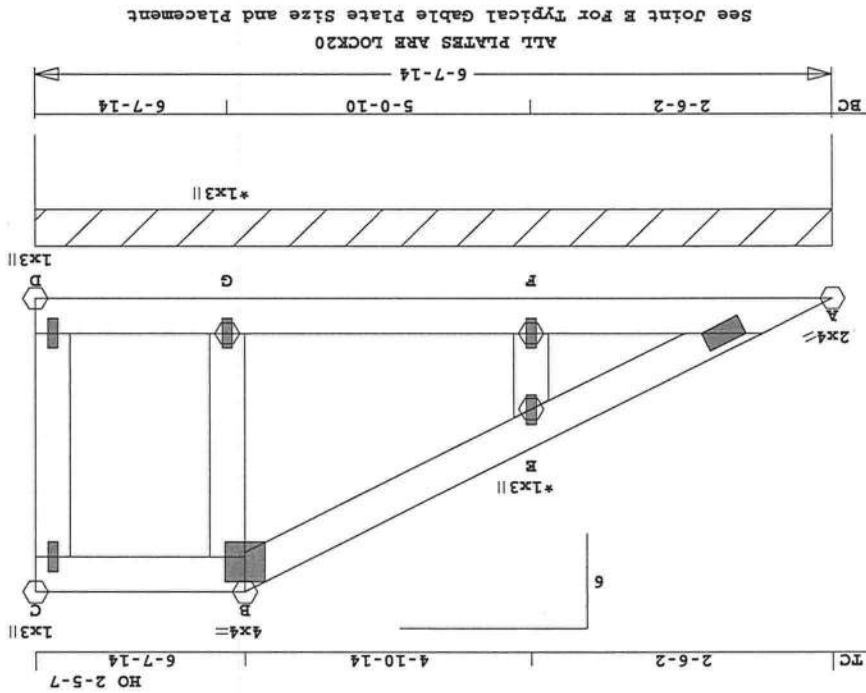
NOTES:
Trusses Manufactured by:

Plates for each ply each face.
PLATING CONFORMS TO TPI.
REPORT: NER 691
ROBBINS ENGINEERING, INC.
BASED ON SP LUMBER
USING GROSS AREA TEST.
Plate - LOCK 20 Ga, Gross Area
Plate - RHS 20 Ga, Gross Area
Jt Type Plt Size X Y JSI
A LOCK 2.0x 4.0 Ctr Ctr 0.68
E LOCK 1.0x 3.0 Ctr Ctr 0.75
B LOCK 4.0x 4.0 Ctr-1.0 0.49
C LOCK 1.0x 3.0 Ctr Ctr 0.75
F LOCK 1.0x 3.0 Ctr Ctr 0.75
D LOCK 1.0x 3.0 Ctr Ctr 0.75
1 Gable studs to be attached
with 2.0x4.0 plates each end.

RIGHT: 33.4 LBS
 Mayo Truss Co. Inc.
 Analysis Conforms To:
 FB2C004
 Design checked for 10 psf non-
 concurrent TL on BC.
 Wind Loads - ANSI / ASCE 7-02
 Truss is designed as a Main
 Wind-Force Resistance System.
 Wind Speed: 110 mph
 Mean Roof Height: 15'-0
 Exposure Category: B
 Occupancy Factor: 1.00
 Building Type: Enclosed
 Zone Location: Exterior
 TC Dead Load: 5.0 psf
 BC Dead Load: 5.0 psf
 Max comp. force 282 lbs
 Quality Control Factor 1.25

Online Plus -- Version 18.0.014
RUN DATE: 22-NOV-05

ing, Inc./Online Plus™	A - F	0.09	0 T	0.00	0.09
APPROX. TRUSS					
	E - D	0.09	0 T	0.00	0.09
able Webs					
	F - E	0.02	282 C		
	D - C	0.01	99 C		

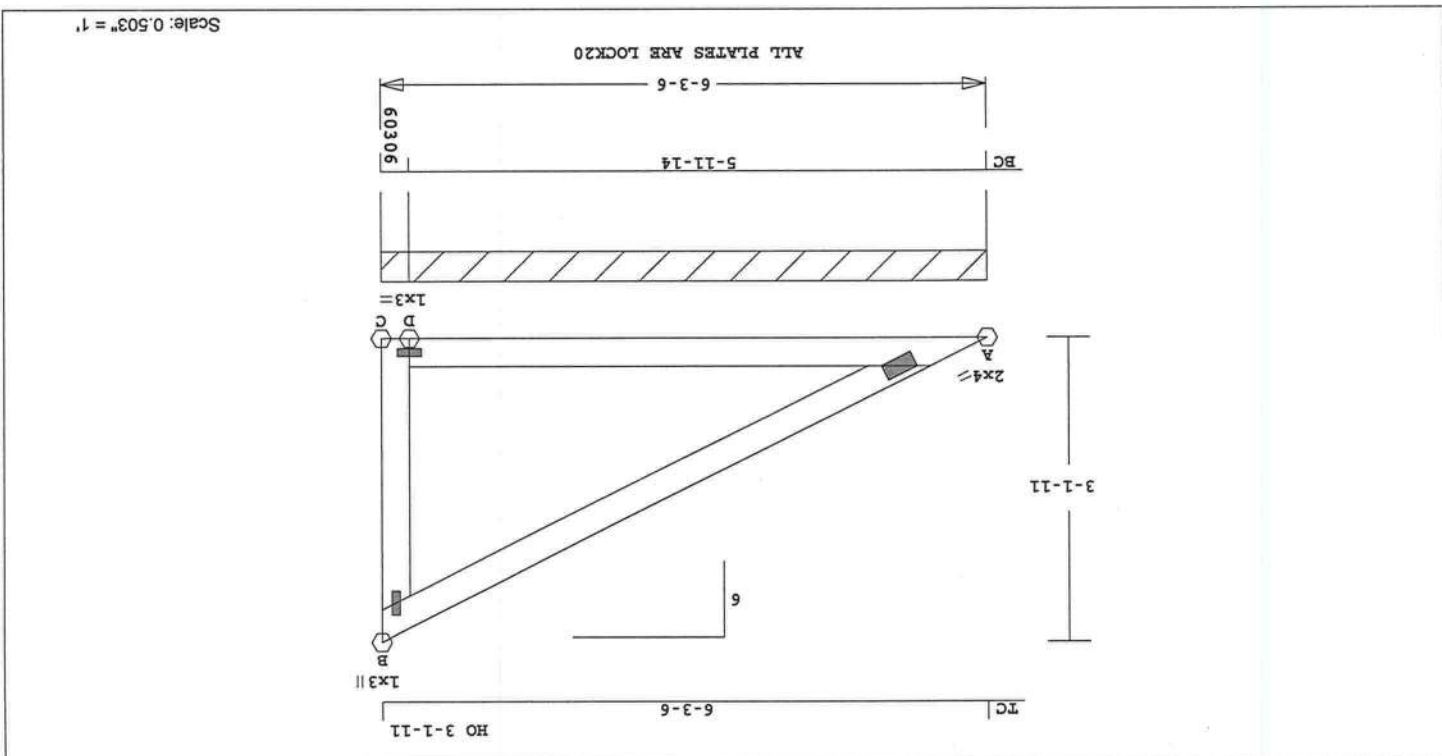


ALL PLATES ARE LOCK20
See Joint R For Typical Gable Plate Size and Placement

Scale: 0.624" = 1'

U#	J#	ELIXSON	JASON	ELIXSON
Job	Mark	Quan	Type	Span
ELIXSON	V2	1	VLMHP.SB	60714
				6
				Left OH
				Right OH
				0
				0
				Engineering
				T05112418

Job	Mark	Quan	Type	Span	Pl-HI	Left OH	Right OH	Enginecting	U# J#ELIXSON JASON ELIXSON
ELIXSON	V3	1	VLM.SB	60306	6	0	0	T05112418	



```
Robbins Engineering, Inc./Online Plus - APPROX. TRUSS
-----Bottom Chords-----
A-D 0.16      0 T 0.00 0.16
Online Plus -- Version 18.0.014
-----Gable Webs-----
D-B 0.01      129 C WindPld
RUN DATE: 22-NOV-05
```

Truss is designed as a Main
Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15'-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone Location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 129 lbs
Quality Control Factor 1.25

Brace truss as follows:

O.C.	From	To
TC Cont.	0 - 0 - 0	6 - 3 - 6
BC Cont.	0 - 0 - 0	6 - 3 - 6

REPORT: NER 691
 ROBINS ENGINEERING, INC.
 BASED ON SP LUMBER
 PLATING CONFORMS TO TPI.
 Plates for each ply each face.

Truss Design Engineer: Vuong Phan
License #: 62111
Address: P.O. Box 280055, Tampa, FL 33682



Date Sealed: 11/23/2005

Robbins Engineering, Inc./Online Plus™ © 1996-2005 Version 18.0.014 Engineering - Portrait 11/22/2005 3:23:13 PM Page 1

Plus 5 Wind Load Case(s)	Plus 1 UBC TL Load Case(s)	
Ut React Uplift Size Req'd	Lbs In-Sk In-Sk	0 - 0 - 0 to 5-11-14
Cont. Brg	450	62 Hz = 87
Cont. Brg	242	691 Hz = 199
D	0	0 1- 8 1- 0
Membr CSI P Lbs Ax1-CSI-Bnd	-----Top Chords-----	
A - B 0.28	39 C 0.00	0.28

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by: Mayo Truss Co. Inc.

Analysis Conforms To: FBC2004

Design checked for 10 psf non-concurrent TL on BC.

Wind Loads - ANSI / ASCE 7-02

Tampa, FL 33682

REVIEWED BY:
Robbins Engineering, Inc.
PO Box 280055
Tampa, FL 33682

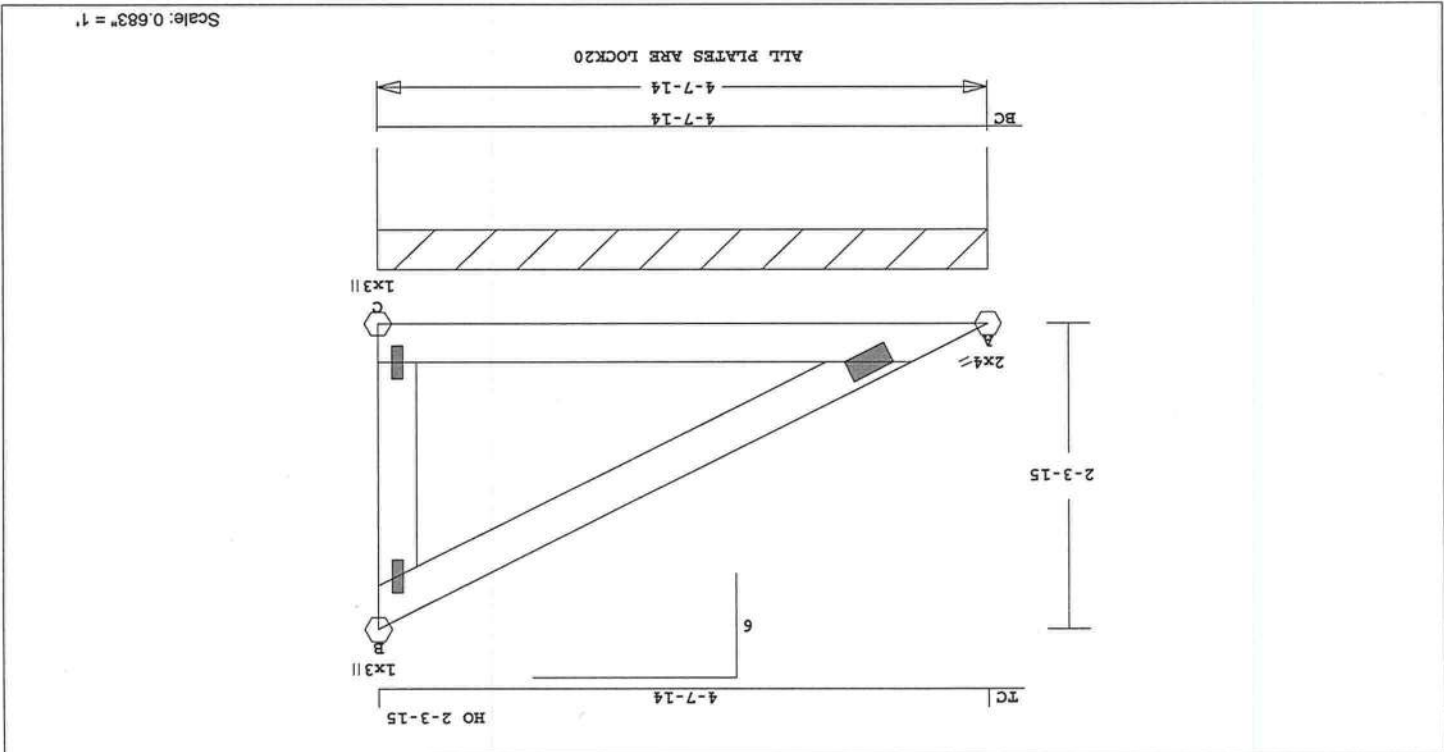
	Plate - LOKK 20 Ga, gross Area	Plate - RHS 20 Ga, gross Area	Jt Type Plt Size X Y Jst	A LOCK 2.0x 4.0 Ctr Ctr 0.68	B LOCK 1.0x 3.0 Ctr Ctr 0.75	D LOCK 1.0x 3.0 Ctr Ctr 0.75
USING GROSS AREA TEST:						

[illegible]

TC	0.28	2x	4	SP-#2	
BC	0.16	2x	4	SP-#2	
GM	0.01	2x	4	SP-#2	

ONLINE PLUS -- Version 18.0.014
RUN DATE: 22-NOV-05

Job	ELIXSON	U# J#ELIXSON JASON ELIXSON
Mark	V4	1
Quan	Type	Span
	VLM.SB	40714
	PL-H1	6
	Left OH	0
	Right OH	0
Engineering		T05112418



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 20.6 LBS
C -B 0.00 92 C Windld

Mean Roof Height: 15-0

Exposure Category: B

Occupancy Factor: 1.00

Building Type: Enclosed

Zone Location: Exterior

TC Dead Load: 5.0 psf

BC Dead Load: 5.0 psf

Max comp. force 92 Lbs

Quality Control Factor 1.25

TL Defl -0.01" in A -C L/999
Shear // Grain in A -B 0.14

Plates for each ply each face.
PLATING CONFORMS TO TPI.

REPORT: NER 691

ROBBINS ENGINEERING, INC.

BASED ON SP LUMBER

USING GROSS AREA TEST.

Plate - LOCK 20 Ga, Gross Area

Plate - RHS 20 Ga, Gross Area

JT Type Plt Size X Y JSI

A LOCK 2.0x 4.0 Ctr Ctr 0.65

B LOCK 1.0x 3.0 Ctr Ctr 0.75

C LOCK 1.0x 3.0 Ctr Ctr 0.75

Online Plus -- Version 18.0.014
RUN DATE: 22-NOV-05

CSI -Size- ---Lumber----

TC 0.11 2x 4 SP-#2

BC 0.06 2x 4 SP-#2

GW 0.00 2x 4 SP-#2

Brace truss as follows:

O.C. From To

TC Cont. 0-0-0 4-7-14

BC Cont. 0-0-0 4-7-14

Loading Live Dead (psf)

TC 20.0 10.0

BC 0.0 10.0

Total 20.0 20.0

Spacing 24.0"

Lumber Duration Factor 1.25

Plate Duration Factor 1.25

TC Fb=1.15 Fc=1.10 Ft=1.10

BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 5 Wind Load Case(s)

Plus 1 UBC LT Load Case(s)

Jt React Uplift Size Req'd

Lbs In-Sk In-Sk

Cont. Brg 0-0-0 to 4-7-14

323 43 Hz = 62

Membr CSI P Lbs Ax1-CSI-Bnd

-----Top Chords-----

A-B 0.11 27 C 0.00 0.11

-----Bottom Chords-----

A-C 0.06 0 T 0.00 0.06

-----Gable Webs-----

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by:

Mayo Truss Co. Inc.

Analysis Conforms To:

FB2004

Design checked for 10 psf non-

concurrent LL on BC.

Wind Loads - ANSI / ASCE 7-02

Truss is designed as a Main

Wind-Force Resistance System.

Wind Speed:

110 mph



Truss Design Engineer: Vuong Phan
License #: 62111
Address: P.O. Box 280055, Tampa, FL 33682

	Plus	5 Wind Load Case(s)
	Plus	1 UBC LL Load Case(s)
JT React	Uplift	Size Req'd
Lbs	In-Sx	In-Sx
Conf. Brg	0 - 0 - 0	to 3-11-14
	290	41 Hz =
Conf. Brg	0 - 0 - 0	to 4 - 3 - 6
	85	139 Hz =
D	0	0 1 - 8 1 - 0
Member	CSI	P Lbs Axl-CSI-Bnd
-----Top Chords-----		
A - B	0.09	25 C 0.00 0.09

REFER TO ROBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:

Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysts Conforms To:
FBC2004
Design checked for 10 psf non-
concurrent TL on BC.
Wind Loads - ANSI / ASCE 7-02

Brace truss as follows:

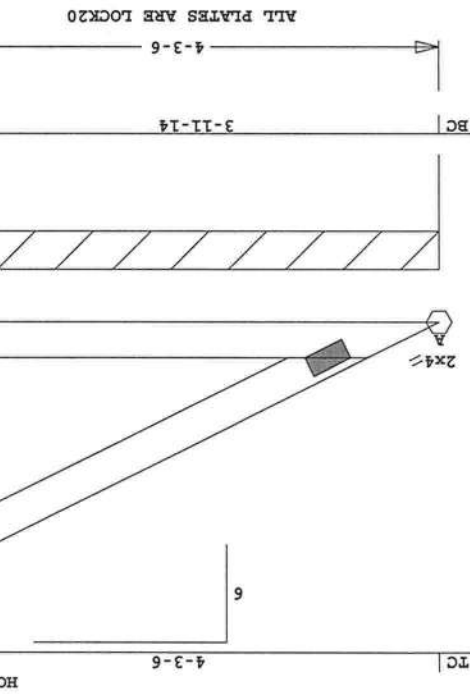
	O.C.	From	To
TC Cont.	0 - 0 - 0	4 - 3 - 6	
BC Cont.	0 - 0 - 0	4 - 3 - 6	
Loading	Live	Dead	(psf)
TC	20.0	10.0	
BC	0.0	10.0	
Total	20.0	20.0	40.0
Spacing			24.0"
Lumber Duration Factor			1.25
Plate Duration Factor			1.25
TC Fb=1.15	Fc=1.10	Ft=1.10	
BC Fb=1.10	Fc=1.10	Ft=1.10	

CSI	Size	-----Lumber----
TC	0.09	2x 4 SP-#2
BC	0.05	2x 4 SP-#2
GM	0.00	2x 4 SP-#2

Online Plus -- Version 18.0.014
RUN DATE: 22-NOV-05

-----Bottom Chords-----	A-D	0.05	0.1	0.00	0.05
-----Gable Webs-----	D-B	0.00	0.00	0.00	0.00

Robbins Engineering, Inc./Online PlusTM APPROX. TRUSS WEIGHT: 18.8 LBS



Scale: 0.642" = 1'

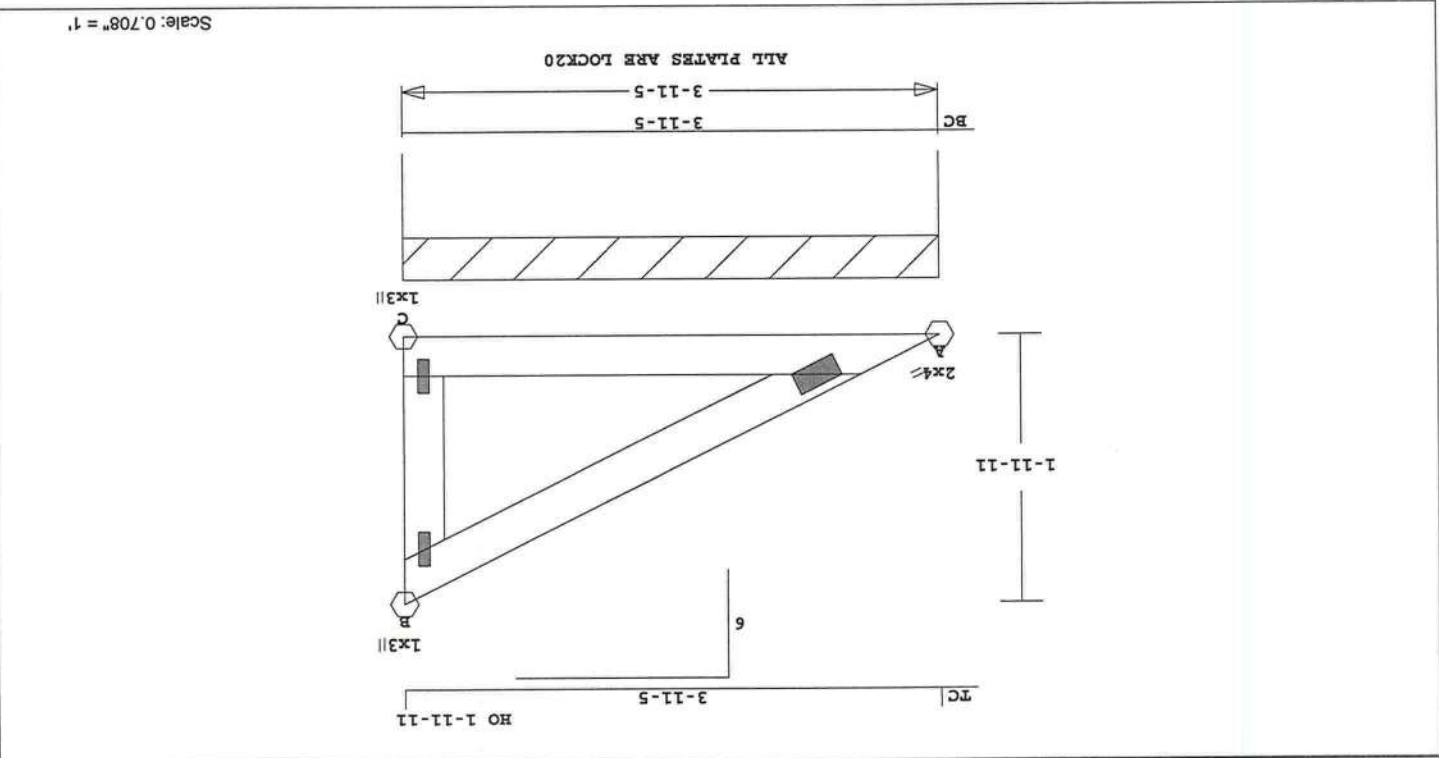
U#	J#	ELIXSON	JASON	ELIXSON	U#
Job	Mark	Quan	Type	Span	PI-HI
Left OH	Right OH	0	0	6	40306
Engineering					T05112418



Truss Design Engineer: Vuong Phan
License #: 62111
Address: P.O. Box 280055, Tampa, FL 33682

Truss is designed as a Main
Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15'-0
Exposure Category: B
Occupancy Factor: 1.00
Building Type: Enclosed
Zone Location: Exterior
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 84 lbs
Quality Control Factor 1.25

Job	Mark	Quan	Type	Span	Pl-Ht	Left OH	Right OH	Engineering
ELIXSON	V7	1	VLM-SB	31105	6	0	0	T05112418



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 17.1 LBS
 C-B 0.00 76 C Windld
 LT Defl 0.00" in A-C L/999
 TL Defl 0.00" in A-C L/999
 Shear // Grain in A-B 0.11

Online Plus -- Version 18.0.014
 RUN DATE: 23-NOV-05
 CSI -Size- -Lumber-
 TC 0.06 2x 4 SP-#2
 BC 0.03 2x 4 SP-#2
 GW 0.00 2x 4 SP-#2

Brace truss as follows:
 O.C. From To
 TC Cont. 0-0-0 3-11-5
 BC Cont. 0-0-0 3-11-5

Loading Live Dead (psf)
 TC 20.0 10.0
 BC 0.0 10.0
 Total 20.0 20.0
 Spacing 24.0"
 Lumber Duration Factor 1.25
 Plate Duration Factor 1.10
 TC Fb=1.15 Fc=1.10 Fc=1.10
 BC Fb=1.10 Fc=1.10 Fc=1.10

Plus 5 Wind Load Case(s)
 Plus 1 UBC LT Load Case(s)
 Lt React Uplift Size Req'd
 Lbs In-Sk In-Sk
 Cont. Brg 0-0-0 to 3-11-5
 266 35 Hz = 51

REFER TO ROBBINS ENG. GENERAL
 NOTES AND SYMBOLS SHEET FOR
 ADDITIONAL SPECIFICATIONS.

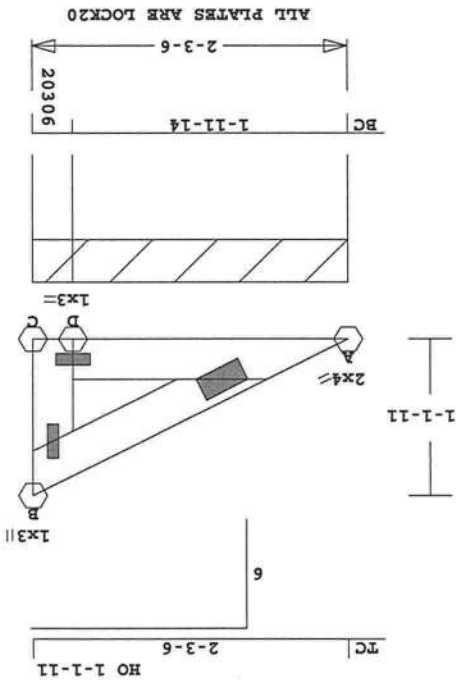
NOTES:
 Trusses Manufactured by:
 Mayo Truss Co. Inc.
 Analysis Conforms To:
 FB2004

Design checked for 10 psf non-
 concurrent LL on BC.
 Wind Loads - ANSI / ASCE 7-02
 Truss is designed as a Main
 Wind-Force Resistance System.
 Wind Speed: 110 mph

Truss Design Engineer: Vuong Phan
 License #: 62111
 Address: P.O. Box 280055, Tampa, FL 33682



Job	Mark	Quan	Type	Span	Pl-H1	Left OH	Right OH	Engineering
ELIXSON	V9	1	VLM.SB	20306	6	0	0	T05112418
U# J#ELIXSON JASON ELIXSON								



Scale: 0.719" = 1'

Robbins Engineering, Inc./Online Plus" APPROX. TRUSS WEIGHT: 8.9 LBS
Truss is designed as a Main
Wind-Force Resistance System.
Wind Speed: 110 mph
Mean Roof Height: 15'-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
Zone location: Exterior
TC Dead Load : 5.0 psf
BC Dead Load : 5.0 psf
Max comp. force 37 Lbs
Quality Control Factor 1.25

Online Plus -- Version 18.0.014
RUN DATE: 22-NOV-05

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

Brace truss as follows:
O.C. From To
TC Cont. 0-0-0 2-3-6
BC Cont. 0-0-0 2-3-6

Loading Live Dead (psf)
TC 20.0 10.0
BC 0.0 10.0
Total 20.0 20.0
Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Plus 5 Wind Load Case(s)
Plus 1 UBC TL Load Case(s)

Uf React Uplift Size Req'd
lbs In-Sk In-Sk
D 130 19 23-14 1-0
Hz = 26
Cont. Brg 0-0-0 to 2-3-6
D 66 0 Hz = 50
0 1-8 1-0

Membr CSI P lbs Ax1-CSI-Bnd
-----Top Chords-----
A-B 0.01 11 C 0.00 0.01

REFER TO ROBBINS ENG. GENERAL
NOTES AND SYMBOLS SHEET FOR
ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2004
Design checked for 10 psf non-
concurrent TL on BC.

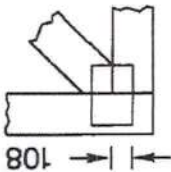
Wind Loads - ANSI / ASCE 7-02

Truss Design Engineer: Vuong Phan
License #: 62111
Address: P.O. Box 280055, Tampa, FL 33682



ROBBINS ENG. GENERAL NOTES & SYMBOLS

PLATE LOCATION



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

PLATE SIZE

6 x 8

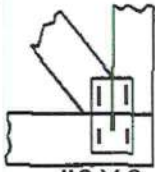
The first dimension is the width measured perpendicular to slots. The second dimension is the length measured parallel to slots.



LATERAL BRACING

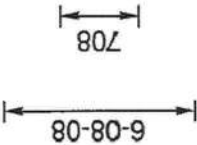
Designates the location for continuous lateral bracing (CLB) for support of individual truss members only. CLBs must be properly anchored or restrained to prevent simultaneous buckling of adjacent truss members.

PLATE ORIENTATION

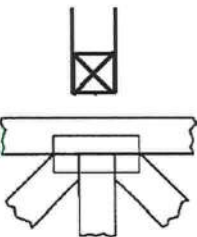


Shown next to plate size, indicates direction of slots in connector plate.

DIMENSIONS



All dimensions are shown in FT-IN-SX (i.e. 6' 8 1/2" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).



BEARING

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

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

FURNISH A COPY OF THESE DESIGNS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE TRUSS DESIGN DRAWINGS & VERIFY THAT DATA INCLUDING DIM. & LOADS CONFORM TO ARCH. PLAN/SPECS & FAB. TRUSS PLACEMENT DIAGRAM.



6904 Parke East Blvd
Tampa, FL 33610-4115
813-972-1135 Fax: 813-971-6117

Corporate Headquarters

COLUMBIA COUNTY BUILDING DEPARTMENT
CHECKLIST FOR PERMITTING

Application # _____

Notarized completed Building Permit Application

Notes: _____

If an Owner Builder, signed Disclosure Statement

Notes: *NA*

Recorded Deed or a Notarized Affidavit (form from the Building Dept.)

Notes: _____

Approved and Signed Site Plan from Environmental Health on the septic

Notes: _____

Site plan with actual distances of the structure to each property line

Notes: _____

911 Address form, Contact 386.752.8787 for an appointment

Notes: _____

Residential or Commercial Checklist completed

Notes: _____

Driving directions including all road names

Notes: _____

Well information (on plans or letter from the well driller)

Notes: *Water System Closes Regularly*

Before the 1st inspection Recorded Notice of Commencement signed by owner

Notes: _____

2 sets of plans (blueprints)

Notes: _____

2 sets of sealed truss engineering

Notes: _____

2 sets of energy code & manual J

Notes: _____

2 sets of engineering packets including specs on windows, doors, roof and etc.

Notes: _____

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR
FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004
WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE
COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING
CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED
ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE
METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR
ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC
WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ----- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE ----- 110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS: Two (2) complete sets of plans containing the following:

Applicant ☒ Plans Examiner ☒

All drawings must be clear, concise and drawn to scale ("Optional" details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans. Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.

Site Plan including:

- a) Dimensions of lot
- b) Dimensions of building set backs
- c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements.
- d) Provide a full legal description of property.

Wind-load Engineering Summary, calculations and any details required

Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC

- a. Basic wind speed (3-second gust), miles per hour (km/hr).
- b. Wind importance factor, Iw, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7.
- c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated.
- d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient.
- e. Components and Cladding. The design wind pressures in terms of psf (kN/m²) to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional.

Elevations including:

- a) All sides
- b) Roof pitch
- c) Overhang dimensions and detail with attic ventilation

d) Location, size and height above roof of chimneys.	☒	☐
e) Location and size of skylights	☒	☐
f) Building height	☒	☒
e) Number of stories	☒	☒
Floor Plan including:		
a) Rooms labeled and dimensioned.	☒	☒
b) Shear walls identified.	☒	☐
c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 (see attach forms).	☒	☐
d) Show safety glazing of glass, where required by code.	☒	☐
e) Identify egress windows in bedrooms, and size.	☒	☒
f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, (Please circle applicable type).	☒	☐
g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.	☒	☒
h) Must show and identify accessibility requirements (accessible bathroom)	☒	☐
Foundation Plan including:		
a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing.	☒	☐
b) All posts and/or column footing including size and reinforcing	☒	☐
c) Any special support required by soil analysis such as piling	☒	☐
d) Location of any vertical steel.	☒	☐
Roof System:		
a) Truss layout and truss details signed and sealed by FL. Pro. Eng.	☒	☒
2. Roof assembly (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)	☐	☐
1. Rafter size, species and spacing	☐	☐
2. Attachment to wall and uplift	☐	☐
3. Ridge beam sized and valley framing and support details	☐	☐
4. Roof assembly (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)	☐	☐
Wall Sections including:		
a) Masonry wall	☐	☐
1. All materials making up wall		
2. Block size and mortar type with size and spacing of reinforcement		
3. Lintel, tie-beam sizes and reinforcement		
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details		
5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation		
6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)		
7. Fire resistant construction (if required)		
8. Fireproofing requirements		
9. Shoe type of termite treatment (termiteicide or alternative method)		
10. Slab on grade		
a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)		
b. Must show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and supports		
11. Indicate where pressure treated wood will be placed		
12. Provide insulation R value for the following:		
a. Attic space		
b. Exterior wall cavity		

Water supply is

Supplied by LEAD 1 Dicks Water System

- a) Size of pump motor
- b) Size of pressure tank
- c) Cycle stop valve if used

Private Potable Water

***Notice Of Commencement Required Before Any Inspections Will Be Done

Disclosure Statement for Owner Builders

- a) Energy Calculations (dimensions shall match plans)
- b) Manual J sizing equipment or equivalent computation
- c) Gas System Type (LP or Natural) Location and BTU demand of equipment

HVAC information

- a) Exhaust fans in bathroom
- b) Arc Fault Circuits (AFCI) in bedrooms
- c) Appliances and HVAC equipment
- d) Meter location with type of service entrance (overhead or underground)
- e) Service panel and sub-panel size and location(s)
- f) Smoke detectors
- g) Ceiling fans
- h) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

Electrical layout including:

Plumbing Fixture layout

- a) Wind load requirements where applicable
- b) Attachment of joist to girder
- c) Girder size and spacing
- d) Floor joist size and spacing
- e) Registered Professional Engineer
- f) Floor truss package including layout and details, signed and sealed by Florida

Floor Framing System:

- a) Engineer or Architect
- b) Metal frame wall and roof (designed, signed and sealed by Florida Prof.

- c. Crawl space (if applicable)

- b. Exterior wall cavity

- a. Attic space

13. Provide insulation R value for the following:

12. Indicate where pressure treated wood will be placed

welded wire fabric reinforcement and supports

b. Must show control joints, synthetic fiber reinforcement or

inches and sealed

a. Vapor retarder (6Mil. Polyethylene with joints lapped 6

11. Slab on grade

10. Show type of termite treatment (termicide or alternative method)

9. Fireproofing requirements

8. Fire resistant construction (if applicable)

requirements and product evaluation with wind resistance rating)

106.1.1.2) Roofing system, materials, manufacturer, fastening

Roof assembly shown here or on roof system detail (FBC

(truss anchors, straps, anchor bolts and washers)

6. All required fasteners for continuous tie from roof to foundation

hinge bracing detail

5. Gable end showing balloon framing detail or gable truss and wall

4. Headers sized

3. Sheathing size, type and nailing schedule

2. Size and species of studs

1. All materials making up wall

b) Wood frame wall

c. Crawl space (if applicable)

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all residential projects.

2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.

3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 (Toilet facilities shall be provided for construction workers)

4. **City Approval:** If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321

5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.** A development permit will also be required. Development permit cost is \$50.00

6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial. If the project is to be located on a F.D.O.T. maintained road, then an F.D.O.T. access permit is required.

7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE - TIME WILL NOT ALLOW THIS - PLEASE DO NOT ASK

PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____ Project Name: _____

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			
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			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rt			
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			

Location

Contractor or Contractor's Authorized Agent Signature

Permit # (FOR STAFF USE ONLY)

Print Name

Date

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

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

NOTICE:

ADDRESSES BY APPOINTMENT ONLY!

TO OBTAIN A 9-1-1 ADDRESS THE REQUESTER MUST CONTACT THE

COLUMBIA COUNTY 9-1-1 ADDRESSING DEPARTMENT AT (386) 752-8787 FOR

AN APPOINTMENT TIME AND DATE:

YOU CAN NOT OBTAIN A NEW ADDRESS OVER THE

TELEPHONE. MUST MAKE AN APPOINTMENT!

THE ADDRESSING DEPARTMENT IS LOCATED AT 263 NW LAKE CITY AVENUE (OFF OF WEST U.S. HIGHWAY 90 WEST OF INTERSTATE 75 AT THE COLUMBIA COUNTY

EMERGENCY OPERATIONS CENTER).

THE REQUESTER WILL NEED THE FOLLOWING:

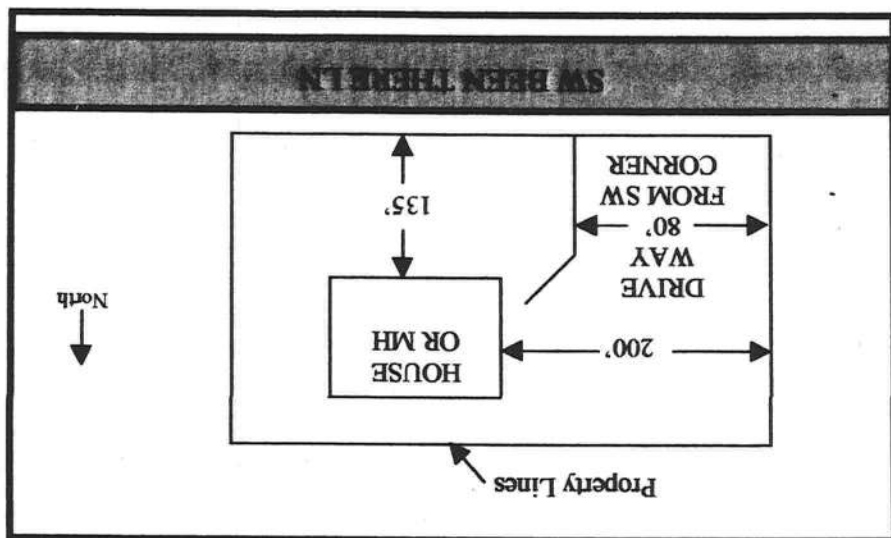
1. THE PARCEL OR TAX ID NUMBER (SAMPLE: "25-4S-17-12345-123" OR "R12345-123") FOR THE PROPERTY.
2. A PLAT, PLAN, SITE PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.

a. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).

b. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).

c. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



NOTE: 5 TO 7 WORKING DAYS MAY BE REQUIRED IF ADDRESSING DEPARTMENT NEEDS TO CONDUCT AN ON SITE SURVEY.

Notice of Treatment

11767

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)

Address: 536 SE BAY AVE

City: LC

Phone: 752 1703

Site Location: Subdivision

Lot # 14

Block#

Permit # 23988

Address: 162 SE Andrews Rd

Product used

Active Ingredient

% Concentration

- | | | |
|---|----------------------------------|-------|
| ☒ Premise | Imidacloprid | 0.1% |
| ☐ Termidor | Fipronil | 0.12% |
| ☐ Bora-Care | Disodium Octaborate Tetrahydrate | 23.0% |

Type treatment:

☒ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

Dwelling

1794

202

168

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

1/9/06

Date

1400

Time

Gunny

Print Technician's Name

Remarks: _____

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05

©