

Columbia County New Building Permit Application

For Office Use Only Application # 57249 Date Received _____ By MG Permit # 47115

Zoning Official _____ Date _____ Flood Zone _____ Land Use _____ Zoning _____

FEMA Map # _____ Elevation _____ MFE _____ River _____ Plans Examiner _____ Date _____

Comments _____

- NOC EH Deed or PA Site Plan State Road Info Well letter 911 Sheet Parent Parcel # _____
- Dev Permit # _____ In Floodway Letter of Auth. from Contractor F W Comp. letter
- Owner Builder Disclosure Statement Land Owner Affidavit Ellisville Water App Fee Paid Sub VF Form

Septic Permit No. 22-0774 OR City Water _____ Fax _____

Applicant (Who will sign/pickup the permit) Allen I. Louden Phone (386)623-4572

Address 1008 SE Peacock Terrace, Lake City 32025

Owners Name Allen I Louden Phone (386)623-4572

911 Address 152 NE Diana Terrace, LC. 32055

Contractors Name Owner Build Phone (386)623-4572

Address 1008 SE Peacock Terrace, LC, 32025

Contractor Email allenlouden1960@gmail.com ***Include to get updates on this job.

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address Mark Disasway, PE 163 SW Midtown Place Ste 103 LC 32025

Mortgage Lenders Name & Address _____

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

Property ID Number 17-35-17-04967-002 Estimated Construction Cost 100K

Subdivision Name 5 Points Acres Lot 2 Block _____ Unit _____ Phase _____

Driving Directions from a Major Road SR 441 N. to NE Tammy Lane, Turn Right to 1st. Road on Right NE Diana Terrace. 2nd Lot on Right - 1st Driveway on Right

Construction of 1 STORY SFD Commercial OR Residential

Proposed Use/Occupancy Private Residence Number of Existing Dwellings on Property 0

Is the Building Fire Sprinkled? NO If Yes, blueprints included Or Explain _____

Circle Proposed - Culvert Permit or Culvert Waiver or D.O.T. Permit or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front _____ Side _____ Side _____ Rear _____

Number of Stories 1 Heated Floor Area 1,092 Total Floor Area 1,240 Acreage 1.3

Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) _____

Columbia County Building Permit Application – "Owner and Contractor Signature Page"

CODES: 2020 Florida Building Code 7th Edition and the 2017 National Electrical Code.

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless pursued in good faith or a permit has been issued.

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

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

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

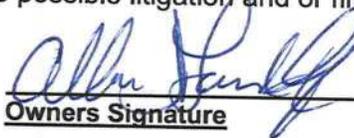
WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY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

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

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

Allen I. Loudon

Printed Owners Name



Owners Signature

****Property owners must sign here before any permit will be issued.**

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

Contractor's Signature

Contractor's License Number

Columbia County

Competency Card Number

Affirmed and subscribed before me the Contractor by means of ___ physical presence or ___ online notarization, this ___ day of _____ 20___, who was personally known _____ or produced ID _____

State of Florida Notary Signature (For the Contractor)

SEAL:



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL
SYSTEM (OSTDS)

PERMIT NO. 22-0774
DATE PAID: 9/14/22
FEE PAID: 600.00
RECEIPT #: 1880427

APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:

- New System Existing System Holding Tank Innovative
 Repair Abandonment Temporary

APPLICANT: Allen I. Louder EMAIL: allenlouder1960@gmail.com
AGENT: _____ TELEPHONE: (386) 623-4572
MAILING ADDRESS: 1008 SE Peacock Terrace L.C, 32025

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

PROPERTY INFORMATION

OSTDS REMEDIATION PLAN? Y N

LOT: 2 BLOCK: — SUBDIVISION: 5 Points Acres PLATTED: _____

PROPERTY ID #: 17-35-17-04967-002 ZONING: R I/M OR EQUIVALENT: Y N

PROPERTY SIZE: 1.3 ACRES WATER SUPPLY: PRIVATE PUBLIC ≤ 2000 GPD > 2000 GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? Y N DISTANCE TO SEWER: _____ FT

PROPERTY ADDRESS: 152 NE Diana Terrace, L.C.

DIRECTIONS TO PROPERTY: SR 441 North to Tammy Terrace, Turn Right, To 1st Right, DIANA TERRACE 300' To 1st Driveway on right

BUILDING INFORMATION

RESIDENTIAL COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table I, Chapter 62-6, FAC
1	Private Residence	2	1240	(1092 Living area)
2				ORIGINAL ATTACHED
3				
4				

Floor/Equipment Drains Other (Specify) _____

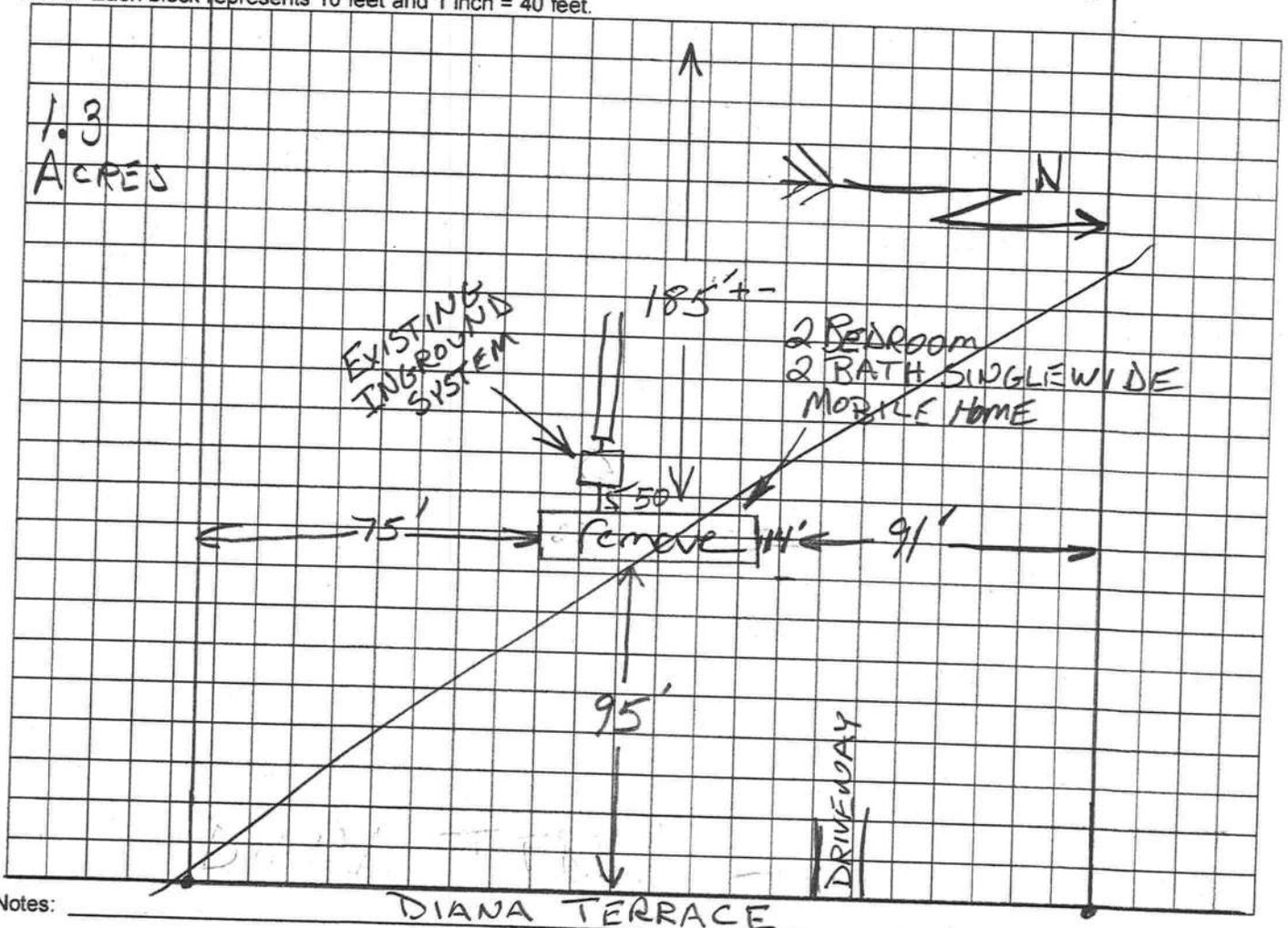
SIGNATURE: Allen I. Louder DATE: 9-7-22

STATE OF FLORIDA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 22-0774

PART II - SITEPLAN

Scale: Each block represents 10 feet and 1 inch = 40 feet.



Notes: _____

See attached

Site Plan submitted by: *Allen J. Smith*

Plan Approved Not Approved _____

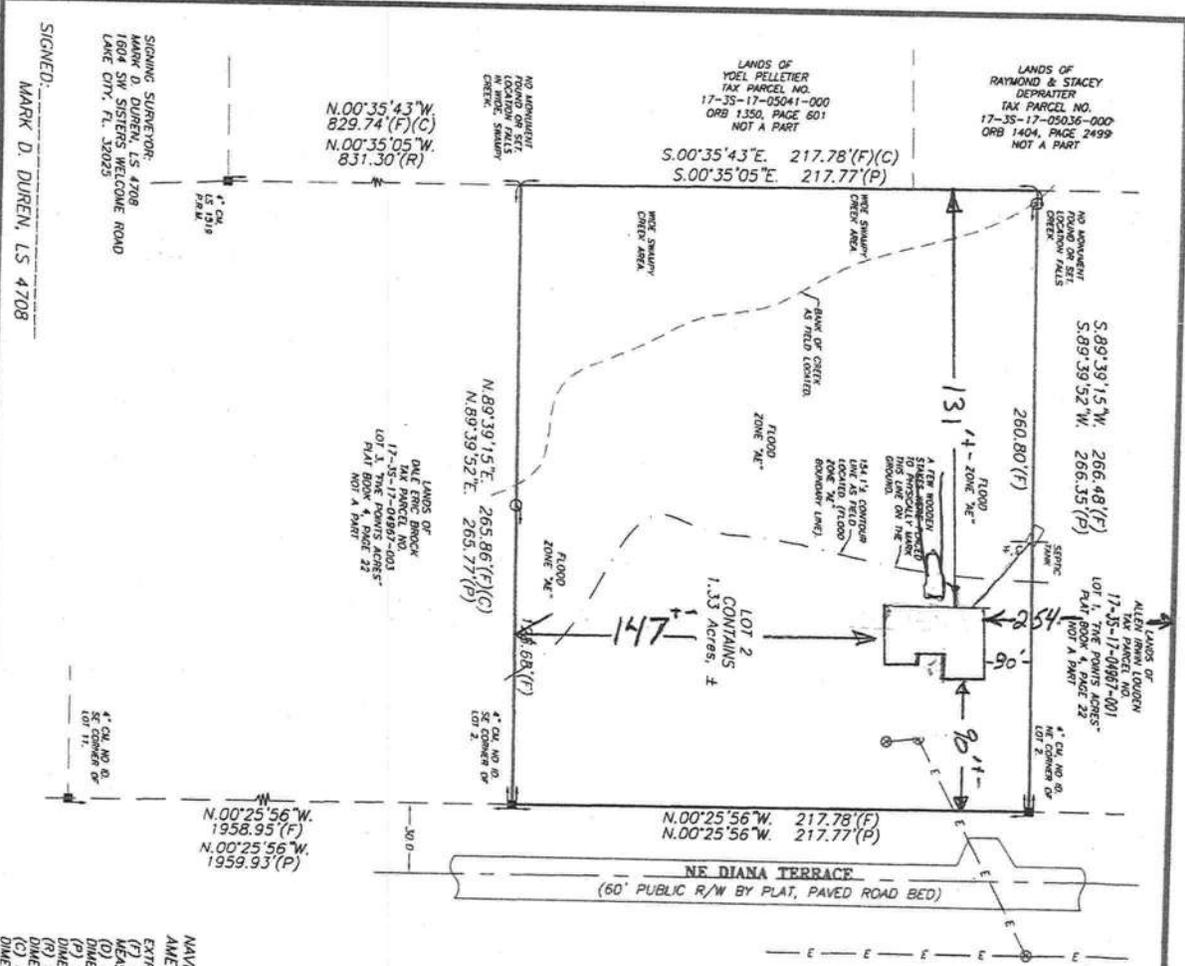
By: *[Signature]* ES2 Columbia Date 1/21/22
 County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DEP 4015, 06-21-2022 (Obsoletes previous editions which may not be used)
 Incorporated: 62-6.004, F.A.C.

SITE PLAN FOR ALLEN I. LOUDEN
 PARCEL ID: 17-35-17-04967-002
 ADDRESS: 152 NE DIANA TERRACE, LC 32055

RECEIVED
 MAR 31 2023



Mark D. Duren

DESCRIPTION:
 LOT 2 OF "FIVE POINTS ACRES", ACCORDING TO MAP OR PLAT THEREOF, AS RECORDED IN THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, IN PLAT BOOK 4, PAGE 22.

BY:
 BOUNDARY SURVEY
 IN SECTION 17,
 TOWNSHIP 3 SOUTH,
 RANGE 12 EAST,
 COLUMBIA COUNTY, FLA.

MARK D. DUREN, L.S. 4708

1. BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE REQUIREMENTS OF THE RECORD TITLE BOUNDARIES OF THIS PARCEL TO THE BEST OF MY ABILITY TO INTERPRET AND LOCATE SAID BOUNDARIES BASED ON THE EVIDENCE OF PRIOR SURVEYS AND RECORDS PROVIDED TO OR OTHERWISE OBTAINED BY THIS OFFICE.

2. BEARINGS BASED ON PLAT OF RECORD USING MONUMENTS FOUND AT THE SE CORNER OF LOT 11 AND THE NE CORNER OF LOT 2.

3. PART OF THIS PARCEL IS IN FLOOD ZONE "X" AND IS DETERMINED TO BE OUTSIDE 500 YEAR FLOOD PLAIN AS SET FLOOD INSURANCE RATE MAP, DATED NOVEMBER 2, 2018, COMMUNITY PANEL NO. 12023C02850. HOWEVER, PART OF THIS PARCEL IS IN FLOOD ZONE "SHADE X" AND "X" AND IS SUBJECT TO FLOODING FOR UTILITY AND/OR DRAINAGE IS SHOWN ON THIS LOT.

4. NO EASEMENT FOR UTILITY AND/OR DRAINAGE IS SHOWN ON THIS LOT IN RECORDS IN THE POSSESSION OF THIS OFFICE.

5. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY BY SHERIFF HERON. UTILITIES IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS, TOLLBOYS, UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.

7. NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND SEAL OF A FLORIDA MONUMENTS CAN BE EXPECTED TO HAVE BEEN MEASURED TO APPROXIMATELY THAT RATIO OF PRECISION, BUILDINGS AND SIMILAR IMPROVEMENTS ARE LOCATED WITHIN ± 0.2 FEET OF THE ACTUAL LOCATION UNLESS OTHERWISE NOTED. OTHER IMPROVEMENTS SUCH AS UTILITY POLES, SEPTIC TANKS, TREES, WINDMILL FENCES, ETC. ARE NORMALLY WITHIN ± 0.5 FEET UNLESS OTHERWISE NOTED.

9. EXCEPTION IS MADE HERON REGARDING EASEMENTS, RESERVATIONS, RESTRICTIONS, AND/OR TITLE CONFLICTS OR RECORD, IF ANY, NOT PROVIDED BY THE CLIENT OR HIS AGENTS OR DISCOVERED BY THIS OFFICE. AN EFFORT HAS BEEN MADE IN GOOD FAITH BY OTHER PARTIES, HOWEVER PHYSICAL CONDITIONS ON THE PARCEL MAY HAVE PREVENTED DISCOVERY OF ALL SUCH EVIDENCE.

10. CERTIFIED TO:
 ALLEN I. LOUDEN

- SYMBOL LEGEND
- B.R.I. OFFICIAL RECORD INSTRUMENT
 - CONCRETE MONUMENT SET, LS 4708
 - 5/8" IRON ROD SET, LS 4708
 - WIRE FENCE
 - WOODEN UTILITY LINE (OVERHEAD)
 - WIRE FENCE
 - CHAIN LINK FENCE
 - CABLE TV LINK (OVERHEAD)
 - WOODEN FENCE
 - CAP CORRUGATED METAL PIPE
 - REINFORCED CONCRETE PIPE
 - IRON DIMENSION
 - IRON OPTICAL REFERENCE MARK
 - PERMANENT REFERENCE MONUMENT
 - PERMANENT CONTROL POINT
 - UTILITY POLE
 - RIGHT-OF-WAY
 - NO IDENTIFICATION
 - F.L.A. DEPT. OF TRANSPORTATION
 - CENTERLINE MONUMENT
 - CONCRETE MONUMENT
 - IRON ROD
 - IRON PIPE
 - STATE ROAD DEPARTMENT

MARK D. DUREN AND ASSOCIATES, INC.
 LB 7620
 1604 SW SISTERS WELCOME ROAD
 LAKE CITY, FLA 32025
 (386) 758-9831 OFFICE
 (386) 758-8010 FAX

FIELD SURVEY DATE: OCTOBER 18, 2022
 DATE DRAWN: OCTOBER 24, 2022
 FOR: 160829

FIELD BOOK: SEE A.C. PAGE
 DRAWN BY: M. DUREN
 W# 22-251
 32871, NATL. BOUNDARY SURV.

MAVD 1988 DATUM = NORTH AMERICAN DATUM OF 1988.
 EXTRA ABBREVIATION: (F) FIELD, AS IN FIELD MEASUREMENT; (D) DEED, AS IN DEED (DIMENSION); (P) RECORD, AS IN PLAT (DIMENSION); (R) RECORD, AS IN RECORD (DIMENSION); (C) RECORD, AS IN CALCULATED (DIMENSION).

LANDS OF YVEL PELLETIER
 TAX PARCEL NO. 17-35-17-05041-000
 ORB 1350, PAGE 601
 NOT A PART

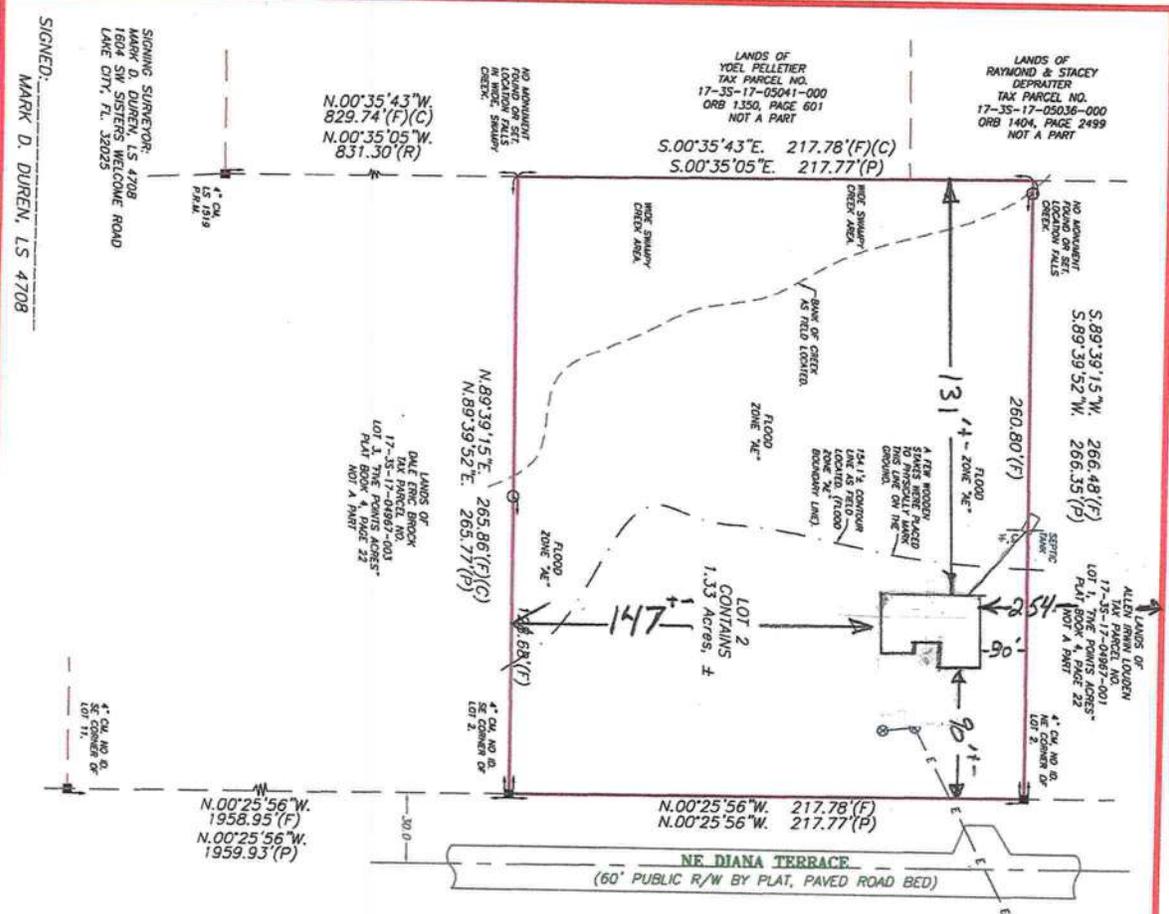
LANDS OF RAYMOND & STACEY DEPRATTER
 TAX PARCEL NO. 17-35-17-05036-000
 ORB 1404, PAGE 2499
 NOT A PART

LANDS OF ALLEN I. LOUDEN
 LOT 1, THE FIVE POINTS ACRES
 PLAT BOOK 4, PAGE 22
 NOT A PART

LANDS OF DAN E. BRIDGES
 TAX PARCEL NO. 17-35-17-04967-001
 PLAT BOOK 4, PAGE 22
 NOT A PART

LANDS OF MARK D. DUREN, L.S. 4708
 1604 SW SISTERS WELCOME ROAD
 LAKE CITY, FL 32025

SITE PLAN FOR ALLEN I. LOUBDEN
 PARCEL ID: 17-35-17-04967-002
 ADDRESS: 152 NE DIANA TERRACE, LC 32055



DESCRIPTION:
 LOT 2 OF "THE POINTS ACRES" ACCORDING TO MAP OR PLAT THEREOF AS RECORDED IN THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, IN PLAT BOOK 4, PAGE 22.

BOUNDARY SURVEY
 IN SECTION 17,
 TOWNSHIP 3 SOUTH,
 RANGE 12 EAST,
 COLUMBIA COUNTY, FLA.

- SURVEYOR'S NOTES:**
- BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF THE RECORD TITLE BOUNDARIES OF THIS PARCEL TO THE BEST OF MY ABILITY TO INTERPRET AND LOCATE SAID BOUNDARIES BASED ON THE EVIDENCE OF PRIOR SURVEYS AND RECORDS PROVIDED TO OR OTHERWISE OBTAINED BY THIS OFFICE.
 - BEARINGS BASED ON PLAT OF RECORD USING MONUMENTS FOUND AT THE SE CORNER OF LOT 11 AND THE NE CORNER OF LOT 2.
 - 500 YD² FLOOD PLAN AS PER FLOOD INSURANCE RATE MAP, DATED NOVEMBER 21, 2018, COMMUNITY PANEL NO. 1202360285D. HOWEVER, PART OF THIS PARCEL IS IN FLOOD ZONE "SHADED X" AND "E" AND IS SUBJECT TO FLOODING.
 - NO EASEMENT FOR UTILITY AND/OR DRAINAGE IS SHOWN ON THIS LOT IN RECORDS IN THE POSSESSION OF THIS OFFICE.
 - THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
 - IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
 - NOT VALID WITHOUT THE ORIGINAL MONUMENT AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
 - CLOSURE OF FIELD SURVEY IS BETTER THAN 1/7500 BOUNDARY AND CONTROL MONUMENTS CAN BE EXPECTED TO HAVE BEEN HELD TO APPROXIMATELY THAT RATIO OF PRECISION. BUILDINGS AND SIMILAR IMPROVEMENTS ARE LOCATED WITHIN ± 0.2 FEET OF THE ACTUAL LOCATION UNLESS OTHERWISE NOTED. OTHER IMPROVEMENTS SUCH AS UTILITY PIPES, SEWER LINES, TREES, INTERIOR FENCES, ETC. ARE NORMALLY WITHIN ± 0.5 FEET UNLESS OTHERWISE NOTED.
 - EXCEPTION IS MADE HEREON REGARDING EASEMENTS, RESERVATIONS, RESTRICTIONS, AND/OR TITLE CONFLICTS OF RECORD, IF ANY, NOT PROVIDED BY THE CLIENT OR HIS AGENTS OR DISCOVERED BY THIS OFFICE. AN EFFORT HAS BEEN MADE IN GOOD FAITH TO SHOW PHYSICAL EVIDENCE OF EASEMENTS, OCCUPATION AND USE BY OTHER PARTIES, HOWEVER PHYSICAL CONDITIONS ON THE PARCEL MAY HAVE PREVENTED DISCOVERY OF ALL SUCH EVIDENCE.
 - IDENTIFIED TO:
 ALLEN I. LOUBDEN

SYMBOL LEGEND

O/R/L SYMBOL RECORD INSTRUMENT

- CONCRETE MONUMENT ST. LS 4708
- IRON PIN OR PILE FOUND
- 5/8" IRON ROD SET, LS 4708
- WIRE FENCE
- ELECTRIC UTILITY LINE (OVERHEAD)
- CABLE
- CHAIN LINK FENCE
- WOODEN FENCE
- CORRUGATED METAL PIPE
- RCP RENFORCED CONCRETE PIPE
- L&S LAND SURVEYOR
- ORG. DECEASED BUSINESS
- PRM PERMANENT SURVEY MONUMENT
- RCP PERMANENT CONTROL POINT
- UTILITY POLE
- RIGHT-OF-WAY
- NO IDENTIFICATION
- F.A. DEPT. OF TRANSPORTATION
- CENTERLINE
- CONCRETE MONUMENT
- IRON ROD
- IRON PIPE
- STATE ROAD DEPARTMENT

MAPD 1988 DATUM = NORTH AMERICAN DATUM OF 1988.

EXTRA ABBREVIATION:
 (F) FIELD AS IN FIELD MEASUREMENT
 (D) DEED AS IN DEED DIMENSION
 (R) RECORD AS IN PLAT DIMENSION
 (C) RECORD AS IN RECORD DIMENSION
 (P) CALCULATED DIMENSION

MARK D. DUREN AND ASSOCIATES, INC.
 LB 7620
 1604 SW SISTERS WELCOME ROAD
 LAKE CITY, FLA 32025
 (386) 758-9831 OFFICE
 (386) 758-8010 FAX

FIELD SURVEY DATE: OCTOBER 28, 2022
 DATE DRAWN: OCTOBER 22, 2022
 FOR: 152 NE DIANA TERRACE
 FIELD BOOK, SEE INC. PLAT
 DRAWN BY: M. DUREN
 WOF# 22-251
 2251 PLAT BOOKING FWD

SIGNING SURVEYOR:
 MARK D. DUREN, LS 4708
 1604 SW SISTERS WELCOME ROAD
 LAKE CITY, FL 32025

SIGNED:
 MARK D. DUREN, LS 4708

2

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # _____ JOB NAME Allen Lounder

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County issues combination permits. One permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the general contractors permit.

NOTE: It shall be the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the Columbia County Building Department.

Use website to confirm licenses: <http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx>

NOTE: If this should change prior to completion of the project, it is your responsibility to have a corrected form submitted to our office, before that work has begun.

Violations will result in stop work orders and/or fines.

ELECTRICAL <input type="checkbox"/> CC# _____	Print Name <u>Mar Matthews</u> Signature <u>[Signature]</u> Company Name: <u>Matthews Electr.</u> License #: <u>EC 13005959</u> Phone #: <u>386-344-2029</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
MECHANICAL/A/C <input type="checkbox"/> CC# _____	Print Name <u>Richard C Register</u> Signature <u>[Signature]</u> Company Name: <u>Registers Heating & Air</u> License #: <u>CAC041267</u> Phone #: <u>(904) 384-2862</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
PLUMBING/GAS <input type="checkbox"/> CC# _____	Print Name <u>Cody Bours</u> Signature <u>[Signature]</u> Company Name: <u>Cody Bours Plumbing</u> License #: <u>CFC 1427145</u> Phone #: <u>786-823-0509</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
ROOFING <input type="checkbox"/> CC# _____	Print Name <u>WALTER POWELL</u> Signature <u>[Signature]</u> Company Name: <u>POWELL & SONS ROOFING INC</u> License #: <u>CC-C057307</u> Phone #: <u>386-209-5198</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
SHEET METAL <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
FIRE SYSTEM/SPRINKLER <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
SOLAR <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
STATE SPECIALTY <input type="checkbox"/> CC# _____	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE



COLUMBIA COUNTY BUILDING DEPARTMENT

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

OWNER BUILDER DISCLOSURE STATEMENT

Florida Statutes Chapter 489.103:

1. I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.
2. I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.
3. I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed in Florida and to list his or her license numbers on permits and contracts.
4. I understand that I may build or improve a one-family or two-family residence or a farm outbuilding. I may also build or improve a commercial building if the costs do not exceed \$75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease, unless I am completing the requirements of a building permit where the contractor listed on the permit substantially completed the project. If a building or residence that I have built or substantially improved myself is sold or leased within 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.
5. I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.
6. I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.

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

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

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

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

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

152 NE Diana Terrace, Lake City, FL 32055

(Write in the address of jobsite property)

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

Florida Statutes Chapter 489.503:

State law requires electrical contracting to be done by licensed electrical contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own electrical contractor even though you do not have a license. You may install electrical wiring for a farm outbuilding or a single-family or duplex residence. You may install electrical wiring in a commercial building the aggregate construction costs of which are under \$75,000. The home or building must be for your own use and occupancy. It may not be built for sale or lease, unless you are completing the requirements of a building permit where the contractor listed on the permit substantially completed the project. If you sell or lease more than one building you have wired yourself within 1 year after the construction is complete, the law will presume that you built it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person as your electrical contractor. Your construction shall be done according to building codes and zoning regulations. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances.

An owner of property completing the requirements of a building permit, where the contractor listed on the permit substantially completed the project as determined by the local permitting agency, for a one-family or two family residence, townhome, accessory structure of a one-family or two-family residence or townhome or individual residential condominium unit or cooperative unit. Prior to the owner qualifying for the exemption, the owner must receive approval from the local permitting agency, and the local permitting agency must determine that the contractor substantially completed the project. An owner who qualifies for the exemption under this paragraph is not required to occupy the dwelling or unit for at least 1 year after the completion of the project.

Before a building permit shall be issued, this notarized disclosure statement must be completed and signed by the property owner and returned to the local permitting agency responsible for issuing the permit.

TYPE OF CONSTRUCTION

Single Family Dwelling **Two-Family Residence** **Farm Outbuilding**

Addition, Alteration, Modification or other Improvement **Electrical**

Other _____

Contractor substantially completed project, of a _____

Commercial, Cost of Construction _____ **for construction of** _____

Allen I. Louden, have been advised of the above disclosure
(Print Property Owners Name)

statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes allowing this exception for the construction permitted by Columbia County Building Permit.

Signature:  Date: 11-18-22
(Signature of property owner)

NOTARY OF OWNER BUILDER SIGNATURE

The above signer is personally known to me or produced identification FIDC

Notary Signature M Garber Date 11/18/22 (Seal)



Columbia County Property Appraiser

Jeff Hampton

Parcel: << 17-3S-17-04967-002 (24722) >>

Result: 2 of 4

Aerial Viewer Pictometry Google Maps
 2019 2016 2013 2010 2007 2005 Sales

2022 Working Values
 updated: 6/2/2022

Owner & Property Info	
Owner	LOUDEN ALLEN IRWIN 1008 SE PEACOCK TER LAKE CITY, FL 32025
Site	152 NE DIANA Ter, LAKE CITY
Description *	LOT 2 FIVE POINTS ACRES S/D. 471-466, 627-699, WD 1266-224, AG 1398-1187,
Area	1.33 AC
Use Code **	VACANT (0000)
	S/T/R 17-3S-17 Tax District 2



Property & Assessment Values			
2021 Certified Values	2022 Working Values		
Mkt Land	\$12,959	Mkt Land	\$10,640
Ag Land	\$0	Ag Land	\$0
Building	\$0	Building	\$0
XFOB	\$0	XFOB	\$3,250
Just	\$12,959	Just	\$13,890
Class	\$0	Class	\$0
Appraised	\$12,959	Appraised	\$13,890
SOH Cap [?]	\$0	SOH Cap [?]	\$0
Assessed	\$12,959	Assessed	\$13,890
Exempt	\$0	Exempt	\$0
Total Taxable	county:\$12,959 city:\$0 other:\$0 school:\$12,959	Total Taxable	county:\$13,890 city:\$0 other:\$0 school:\$13,890

Sales History			
Sale Date	Sale Price	Book/Page	Deed
10/24/2019	\$6,857	1398/1187	AG
11/3/2013	\$100	1266/0224	WD

Building Characteristics			
Bldg Sketch	Description *	Year Bld	Base SF
		NONE	

Extra Features & Out Buildings (Codes)

5

Code	Desc	Year Bit	Value	Units	Dims
9945	Well/Sept		\$3,250.00	1.00	0 x 0

▼ Land Breakdown

Code	Desc	Units	Adjustments	Eff Rate	Land Value
0000	VAC RES (MKT)	1.330 AC	1.0000/1.0000 1.0000/ /	\$8,000 /AC	\$10,640

(9)

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY



Address Assignment and Maintenance Document

To maintain the county wide 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 addressing 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 Services Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County

Date/Time Issued: **6/22/2020 2:42:56 PM**

Address: **152 NE DIANA TER**

City: **LAKE CITY**

State: **FL**

Zip Code **32055**

Parcel ID **17-3S-17-04967-002**

REMARKS: **This address is a verified address in the county's addressing system.**

Verification ID: c9f5b2d2-57e5-4259-8a75-8bfd0e1e5c6b

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

Address Issued By: **GIS Specialist**

Columbia County GIS/911 Addressing Coordinator

Columbia County
Department of Information Technology
135 NE Hernando Ave. Lake City, FL 32055
Telephone 386-719-1456

#11

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

Clerk's Office Stamp
Inst: 202212016790 Date: 08/26/2022 Time: 3:32PM
Page 1 of 1 B: 1474 P: 552, James M Swisher Jr, Clerk of Court
Columbia, County, By: OA
Deputy Clerk

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

- 1. Description of property (legal description): 17-35-17-04967-002
a) Street (job) Address: 152 NE DIANA Terrace
- 2. General description of improvements: NEW 1 Family Home
- 3. Owner Information or Lessee information if the Lessee contracted for the improvements:
a) Name and address: Allen Louden
b) Name and address of fee simple titleholder (if other than owner) _____
c) Interest in property OWNER
- 4. Contractor Information
a) Name and address: Owner Build
b) Telephone No.: _____
- 5. Surety Information (if applicable, a copy of the payment bond is attached):
a) Name and address: NONE
b) Amount of Bond: _____
c) Telephone No.: _____
- 6. Lender
a) Name and address: NONE
b) Phone No. _____
- 7. Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
a) Name and address: _____
b) Telephone No.: _____
- 8. In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:
a) Name: _____ OF _____
b) Telephone No.: _____
- 9. Expiration date of Notice of Commencement (the expiration date will be 1 year from the date of recording unless a different date is specified): _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

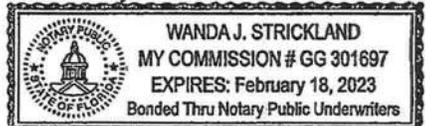
STATE OF FLORIDA
COUNTY OF COLUMBIA

10. Allen Louden
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager
Allen I Louden
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a Florida Notary, this 26 day of August, 2022, by:
Allen I Louden as Owner for Owner
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)

Personally Known OR Produced Identification Type FLDL 4350-009-60-428-0

Notary Signature Wanda J Strickland Notary Stamp or Seal:
Wanda S. Strickland



18

CLYATT WELL DRILLING, INC.

*(Established in 1971)
Post Office Box 180
Worthington Springs, Florida 32697
Phone (386)496-2488 *** FAX (386)496-4640*

WELL DESCRIPTION

DESCRIPTION DATE
6/14/2017

CUSTOMER NAME AND ADDRESS
Erkinger Construction Group 248 SE Nassau Street Lake City, Fl 32025

DESCRIPTION OF WORK

DESCRIPTION
Feet 4" Well 1 HP Submersible Pump Feet 1-1/4" Drop Pipe Feet 14/3 Submersible Pump Wire 81 Gallon Pressure Tank 4 X 1-1/4 Well Seal Pressure Relief Valve Controls and Fittings Sales Tax @ 7%

The above description is provided to give a brief description of the water well to be constructed by Clyatt Well Drilling, Inc.

ROOF OPTIONS

Sealed roof decking options. (Must select one option per FBC 2020 7th Edition) *

a self-adhering polymer-modified bitumen underlayment complying with ASTM D1970 applied over the entire roof.

a minimum 4-inch wide strip of selfadhering polymer-modified bitumen complying with ASTM D1970 or a minimum 3 3/4 - inch wide strip of selfadhering flexible flashing tape complying with AAMA 711, applied over all joints in the roof decking. A felt underlayment complying with ASTM D226 Type II, ASTM D4869 Type III or IV, or ASTM D6757, or a synthetic underlayment meeting the performance requirements specified, is required to be applied over the strips/tape over the entire roof.

two layers of felt underlayment comply ASTM 0226 Type II or ASTM D4869 Type III or IV, or two layers of a synthetic underlayment meeting the performance requirements specified, lapped and fastened as specified.

Other (explain)

Sealed roof decking explanation for other option.



**COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST**

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2020 EFFECTIVE 1 JANUARY 2021
AND THE NATIONAL ELECTRICAL 2017 EFFECTIVE 1 JANUARY 2021

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES RESIDENTIAL AND THE NATIONAL ELECTRICAL CODE. ALL PLANS OR DRAWINGS SHALL PROVIDE 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, FBC 1609.1 THRU 1609.6.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609.3(1) THROUGH 1609.3(4) ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES Revised 7/1/20

Submit Online at- <http://www.columbiacountyfla.com/BuildingandZoning.asp> Items to Include- Each Box shall be Circled as Applicable

**GENERAL REQUIREMENTS:
APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL**

		Select From Drop down		
		Yes	No	NA
1	Two (2) complete sets of plans containing the following:	<input checked="" type="checkbox"/>		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	<input checked="" type="checkbox"/>		
3	Condition space (Sq. Ft.) <u>1092</u> Total (Sq. Ft.) under roof <u>1240</u>			

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES BUILDING 107.1.

Site Plan information including:

4	Dimensions of lot or parcel of land	- X		
5	Dimensions of all building set backs	- X		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	- X		
7	Provide a full legal description of property.	- X		

Wind-load Engineering Summary, calculations and any details are required.

		Select From Drop down		
		Yes	No	NA
GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL				
8	Plans or specifications must show compliance with FBCR Chapter 3			
9	Basic wind speed (3-second gust), miles per hour	- X		
10	(Wind exposure - if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	- X		
11	Wind importance factor and nature of occupancy	- X		
12	The applicable internal pressure coefficient, Components and Cladding	- X		
13	The design wind pressure in terms of psf (kN/m ²), to be used for the design of exterior component, cladding materials not specifically designed by the registered design professional.	- X		

Elevations Drawing including:

14	All side views of the structure	- X		
15	Roof pitch	- X		
16	Overhang dimensions and detail with attic ventilation	- X		
17	Location, size and height above roof of chimneys	- \		N/A
18	Location and size of skylights with Florida Product Approval	- X		
19	Number of stories	- X		
20	Building height from the established grade to the roofs highest peak	- X		

Floor Plan Including:

21	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	- X		
22	Raised floor surfaces located more than 30 inches above the floor or grade	-		N/A
23	All exterior and interior shear walls indicated	- X		
24	Shear wall opening shown (Windows, Doors and Garage doors)	- X		
25	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBCR 312.2.1 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.	- X		
26	Safety glazing of glass where needed	- X		
27	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	- X		
28	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	-		N/A
29	Identify accessibility of bathroom (see FBCR SECTION 320)	- X		

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable
---	--

FBCR 403: Foundation Plans

30	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	- X		Select From Drop down
31	All posts and/or column footing including size and reinforcing	- X		
32	Any special support required by soil analysis such as piling.	-		
33	Assumed load-bearing value of soil Pound Per Square Foot	-		N/A
34	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	- X		N/A

FBCR 506: CONCRETE SLAB ON GRADE

35	Show Vapor retarder (6mil. Polyethylene with joints overlaid 6 inches and sealed)	- X		
36	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	- X		

FBCR 318: PROTECTION AGAINST TERMITES

37	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Submit other approved termite protection methods. Protection shall be provided by registered termiticides	- X		
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FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

38	Show all materials making up walls, wall height, and Block size, mortar type	- X		
39	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	- X		

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

40	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	-		N/A
41	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers	-		N/A
42	Girder type, size and spacing to load bearing walls, stem wall and/or piers	-		N/A
43	Attachment of joist to girder	-		N/A
44	Wind load requirements where applicable	-	X	
45	Show required under-floor crawl space	-		N/A
46	Show required amount of ventilation opening for under-floor spaces	-		N/A
47	Show required covering of ventilation opening	-		N/A
48	Show the required access opening to access to under-floor spaces	-		N/A
49	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing	-		N/A
50	Show Draftstopping, Fire caulking and Fire blocking	-	X	
51	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	-	X	
52	Provide live and dead load rating of floor framing systems (psf).	-		N/A

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
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Select from Drop down

53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	-	X	
54	Fastener schedule for structural members per table FBC 2304.10.1 are to be shown	-	X	
55	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	-	X	
56	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	-	X	
57	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBC 2304.3.	-	X	
58	Indicate where pressure treated wood will be placed	-	X	
59	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	-	X	
60	A detail showing gable truss bracing, wall balloon framing details or/and wall hinge bracing detail	-	X	

FBC :ROOF SYSTEMS:

61	Truss design drawing shall meet section FBC 2303.1.1.1 Wood trusses	-	X	
62	Include a layout and truss details, signed and sealed by Florida Professional Engineer	-	X	
63	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	-	X	
64	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	-	X	
65	Provide dead load rating of trusses	-	X	

FBC 2304.4:Conventional Roof Framing Layout

66	Rafter and ridge beams sizes, span, species and spacing	-	X	
67	Connectors to wall assemblies' include assemblies' resistance to uplift rating	-	X	
68	Valley framing and support details	-	X	
69	Provide dead load rating of rafter system	-	X	

FBC 2304.8 ROOF SHEATHING

70	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	-	X	
71	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	-	X	

ROOF ASSEMBLIES FRC Chapter 15

72	Include all materials which will make up the roof assemblies covering	-	X		
73	Submit Florida Product Approval numbers for each component of the roof assemblies covering	-	X		

FBC Energy Chapter 4

Residential construction shall comply with this code by using the following compliance methods in the FBC Chapter 4, Residential buildings compliance methods. Two of the required forms are to be submitted, N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.

GENERAL REQUIREMENTS:		Items to Include- Each Box shall be Circled as Applicable			
APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL					

74	Show the insulation R value for the following areas of the structure	<i>Select from Drop Down</i>			
75	Attic space	-	X		
76	Exterior wall cavity	-	X		
77	Crawl space	-	X		

HVAC information

78	Submit two copies of a Manual J sizing equipment or equivalent computation study	-	X		
79	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required	-	X		
80	Show clothes dryer route and total run of exhaust duct	-	X		

Plumbing Fixture layout shown

81	All fixtures waste water lines shall be shown on the foundation plan	-	X		
82	Show the location of water heater	-	X		

Private Potable Water

83	Pump motor horse power	-	X		
84	Reservoir pressure tank gallon capacity	-	X		
85	Rating of cycle stop valve if used	-	X		

Electrical layout shown including

86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	-	X		
87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	-	X		
88	Show the location of smoke detectors & Carbon monoxide detectors	-	X		
89	Show service panel, sub-panel, location(s) and total ampere ratings	-	X		
90	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	-	X		
91	Appliances and HVAC equipment and disconnects	-	X		
92	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter, Protection device.	-	X		

Notice Of Commencement:

A notice of commencement form **RECORDED** in the Columbia County Clerk Office is required to be filed with the Building Department **BEFORE ANY INSPECTIONS** can be performed.

GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable
--	--

****ITEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT.****

Select from Drop down

93	Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed.	- X		
94	Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	- X		
95	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058	- X		
96	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031	- X		
97	Toilet facilities shall be provided for all construction sites	- X		
98	Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.	- X		
99	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 a 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 8.5.2 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 8.5.3 of the Columbia County Land Development Regulations (Municode.com)	-		N/A
100	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required.	-		N/A
101	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00	-		N/A
102	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. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	- X		
103	911 Address: An application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	- X		

Ordinance Sec. 90-75. - Construction debris. (e) It shall be unlawful for any person to dispose of or discard solid waste, including construction or demolition debris at any place within the county other than on an authorized disposal site or at the county's solid waste facilities. The temporary storage, not to exceed seven days of solid waste (excluding construction and demolition debris) on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance, shall not be deemed a violation of this section. The temporary storage of construction and demolition debris on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance shall not be deemed in violation of this section; provided, however, such construction and demolition debris must be disposed of in accordance with this article prior to the county's issuance of a certificate of occupancy for the premises. The burning of lumber from a construction or demolition project or vegetative trash when done so with legal and proper permits from the authorized agencies and in accordance with such agencies' rules and regulations, shall not be deemed a violation of this section. No person shall bury, throw, place, or deposit, or cause to be buried, thrown, placed, or deposited, any solid waste, special waste, or debris of any kind into or on any of the public streets, road right-of-way, highways, bridges, alleys, lanes, thoroughfares, waters, canals, or vacant lots or lands within the county. No person shall bury any vegetative trash on any of the public streets, road right-of-way, highways, bridges, lanes, thoroughfares, waters, canals, or lots less than ten acres in size within the county.

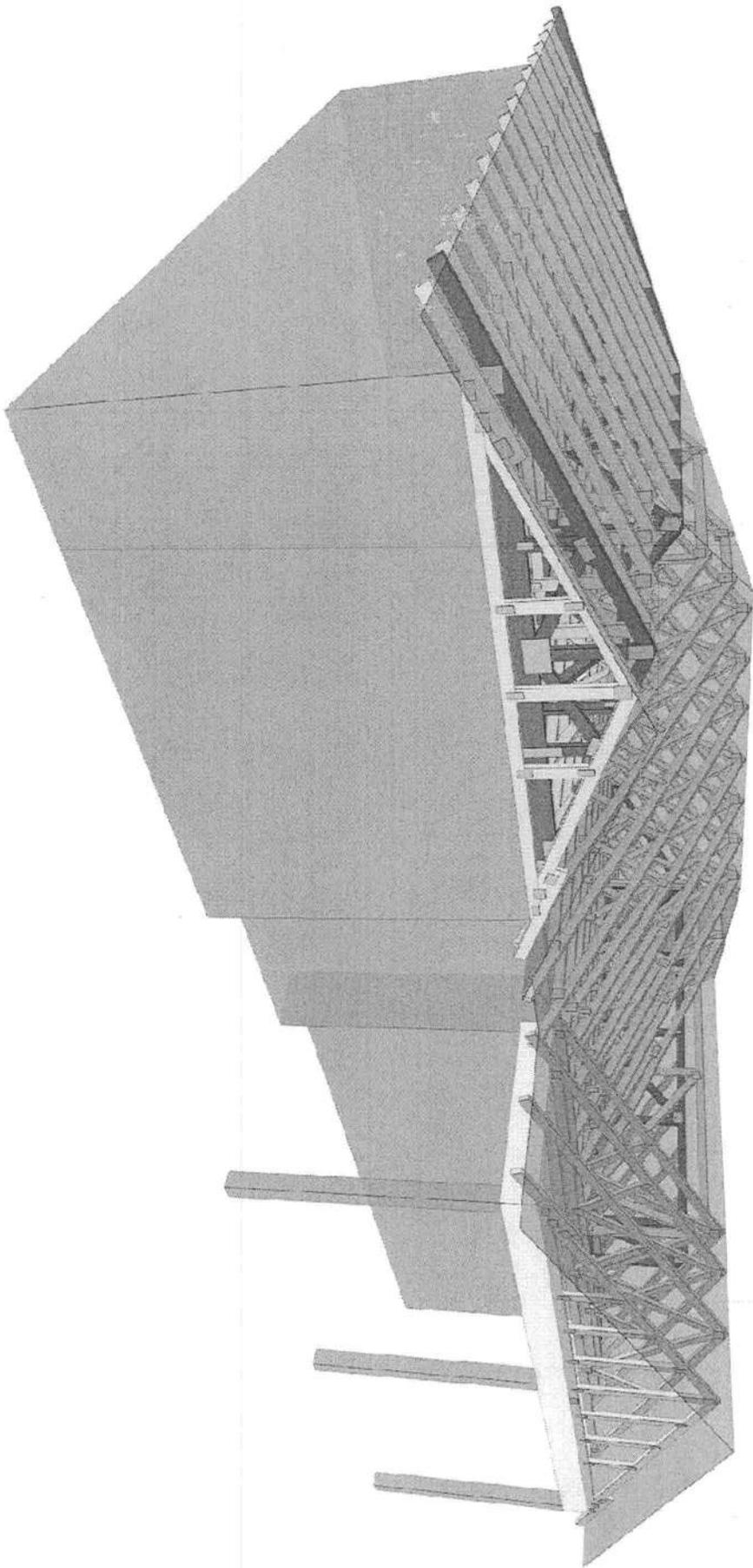
As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Masonite	Inswing & Outswing Fiberglass	FL-5507-R9
B. SLIDING			FL-5565-R10
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS	MI	Vinyl 3540 Single Hung	FL-17676-R19
A. SINGLE/DOUBLE HUNG	MI	Alum 185 Single Hung	FL-17499-R8
B. HORIZONTAL SLIDER	MI	53" x 50" Vinyl	FL-13349-R8
C. CASEMENT			
D. FIXED	MI	Alum 185 Picture or Transom	FL-15349-R15
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL	James Hardie	Sheet Panels	FL-13223-R6
A. SIDING	James Hardie	Cement Board Lap Siding	FL-13192-R6
B. SOFFITS	Kaycan	Vinyl & Alum	FL-16503-R6
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	Certainteed	Asphalt 30 Yr. Arch	FL-5444-R17
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER	Rhino	Underwrap	FL-15216-R10
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES	Simpson	LSTA-MSTA, SP4	FL-13872-R4
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			

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) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

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

NOTES: _____



This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature may not be verified using the original electronic version.



Alpine, an ITW Company
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 North Building, 4th Floor
 Glenview, IL 60025
 Phone: (800)755 6001
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09/07/2022

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 Florida Certificate of Product Approval #FL1999

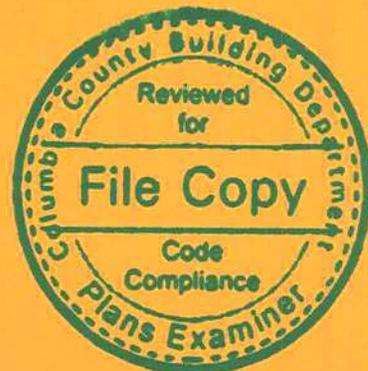
Site Information:		Page 1:	
Customer: Seminole Trusses, Inc.		Job Number: B55953a	
Job Description: Louden Res			
Address: 152 NE Diana TEr, LAKE CITY, FL			

Job Engineering Criteria:			
Design Code: FBC 7th Ed. 2020 Res.		IntelliVIEW Version: 21.01.03A	
Wind Standard: ASCE 7 16		JRef #: 1XIQ8570003	
Building Type: Closed		Design Loading (psf): 37.00	
Wind Speed (mph): 140			

This package contains general notes pages, 18 truss drawing(s) and 6 detail(s).

Item	Drawing Number	Truss
1	249.22.1809.29420	CJ1
3	249.22.1809.29748	CJ3
5	249.22.1809.29717	EJ6
7	249.22.1809.29419	GE2
9	249.22.1809.29888	HGT2
11	249.22.1809.29919	HT3
13	249.22.1809.29669	HT5
15	249.22.1809.29436	SGT1
17	249.22.1809.29763	T 2
19	A14015ENC160118	
21	GBLLETIN0118	
23	PB180160118	

Item	Drawing Number	Truss
2	249.22.1809.29950	CJ2
4	249.22.1809.29591	EJ5
6	249.22.1809.29825	GE1
8	249.22.1809.29450	HGT1
10	249.22.1809.29857	HJT4
12	249.22.1809.29513	HT4
14	249.22.1809.29560	HT6
16	249.22.1809.29482	T 1
18	249.22.1809.29794	T 3
20	CNNALSP1014	
22	PB160160118	
24	REPCHRD1014	



General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR 1118, available on line at www.icc-es.org.

Fire Retardant Treated Lumber:

Fire retardant treated lumber must be properly re dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

CL = Certified lumber.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT DB = D Blaze Fire Retardant Treated lumber.

FRT DC = Dricon Fire Retardant Treated lumber.

FRT FP = FirePRO Fire Retardant Treated lumber.

FRT FL = FlamePRO Fire Retardant Treated lumber.

FRT FT = FlameTech Fire Retardant Treated lumber.

FRT PG = PYRO GUARD Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

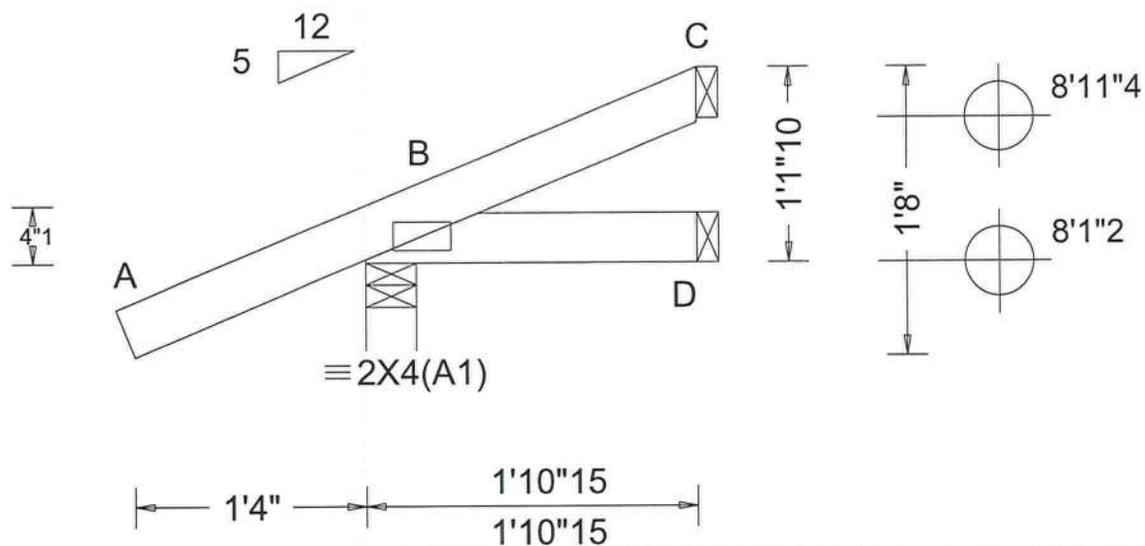
W = Width of non hanger bearing, in inches.

Refer to ASCE 7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; www.awc.org.
2. ICC: International Code Council; www.iccsafe.org.
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; www.alpineitw.com.
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; www.tpinst.org.
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcacomponents.com.



Loading Criteria (psf) TCELL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Criteria Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.000 B HORZ(TL): 0.001 B Creep Factor: 2.0 Max TC CSI: 0.193 Max BC CSI: 0.037 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	▲ Maximum Reactions (lbs)																																
				<table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non Gravity</th> </tr> <tr> <th>R+</th> <th>/R</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>200</td> <td>/</td> <td>/</td> <td>/150</td> <td>/69</td> <td>/52</td> </tr> <tr> <td>D</td> <td>27</td> <td>/</td> <td>/</td> <td>/19</td> <td>/3</td> <td>/</td> </tr> <tr> <td>C</td> <td>19</td> <td>/</td> <td>/</td> <td>/20</td> <td>/16</td> <td>/</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#</p>			Loc	Gravity			Non Gravity			R+	/R	/Rh	/Rw	/U	/RL	B	200	/	/	/150	/69	/52	D	27	/	/	/19	/3	/	C	19	/
Loc	Gravity			Non Gravity																																
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D	27	/	/	/19	/3	/																														
C	19	/	/	/20	/16	/																														

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

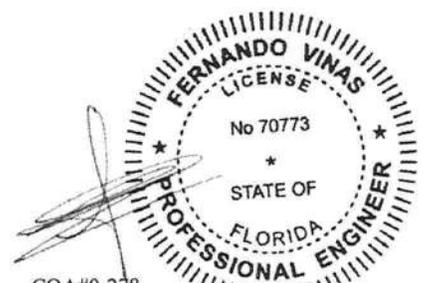
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	43	1.39	1.91
BC	21	0.15	1.91

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.



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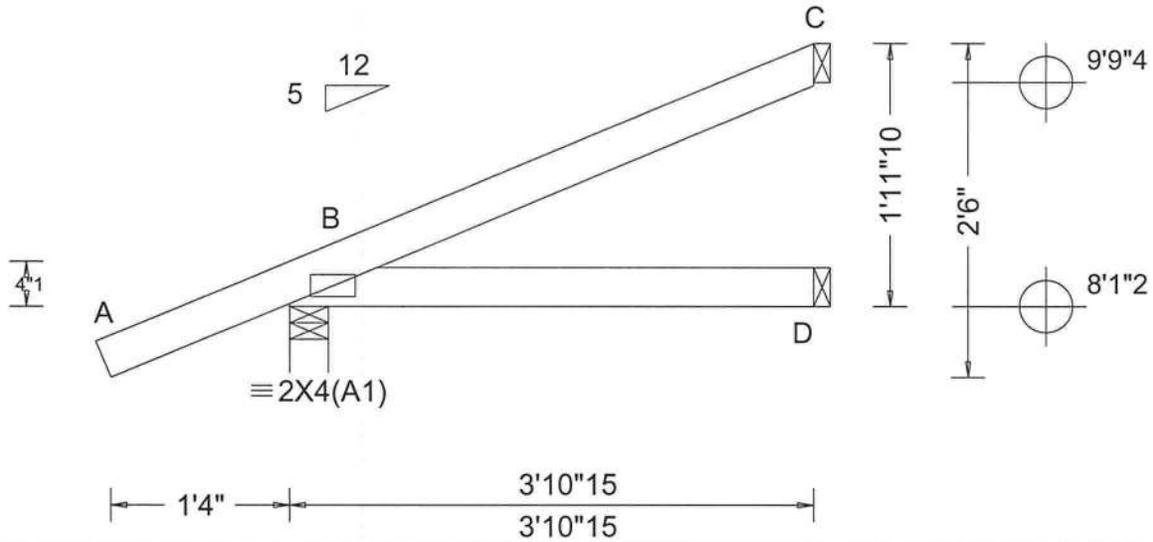
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A Z for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbccomponents.com; ICC: iccsafe.org; AWC: awc.org





Loading Criteria (psf) TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Criteria Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.001 B HORZ(TL): 0.003 B Creep Factor: 2.0 Max TC CSI: 0.164 Max BC CSI: 0.091 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	▲ Maximum Reactions (lbs) Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity B 254 / / / /176 /68 /86 D 67 / / / /36 / / C 84 / / / /43 /56 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#
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Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	69	1.39	3.91
BC	45	0.15	3.91

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



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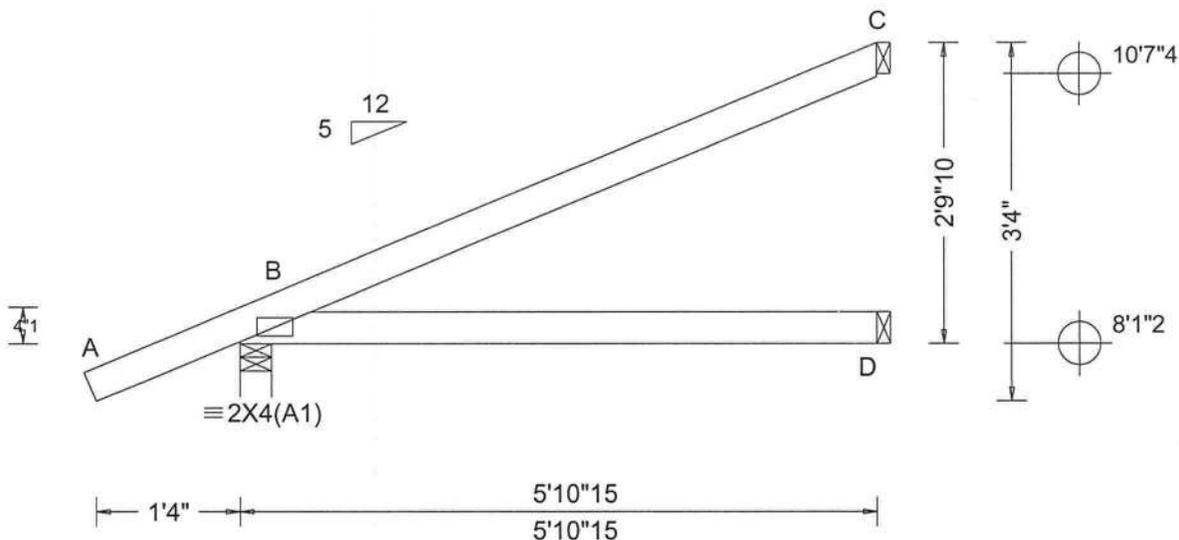
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North Building, 4th Floor
Glenview, IL 60025



Loading Criteria (psf) TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.007 B HORZ(TL): 0.013 B Creep Factor: 2.0 Max TC CSI: 0.402 Max BC CSI: 0.242 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	▲ Maximum Reactions (lbs) Gravity Loc R+ / R / Rh / Rw / U / RL Non Gravity / / / / / / B 323 / / / /215 /78 /120 D 105 / / / /57 / / / C 138 / / / /74 /91 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#
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Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	1.39	5.91
BC	69	0.15	5.91

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

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

Wind loading based on both gable and hip roof types.



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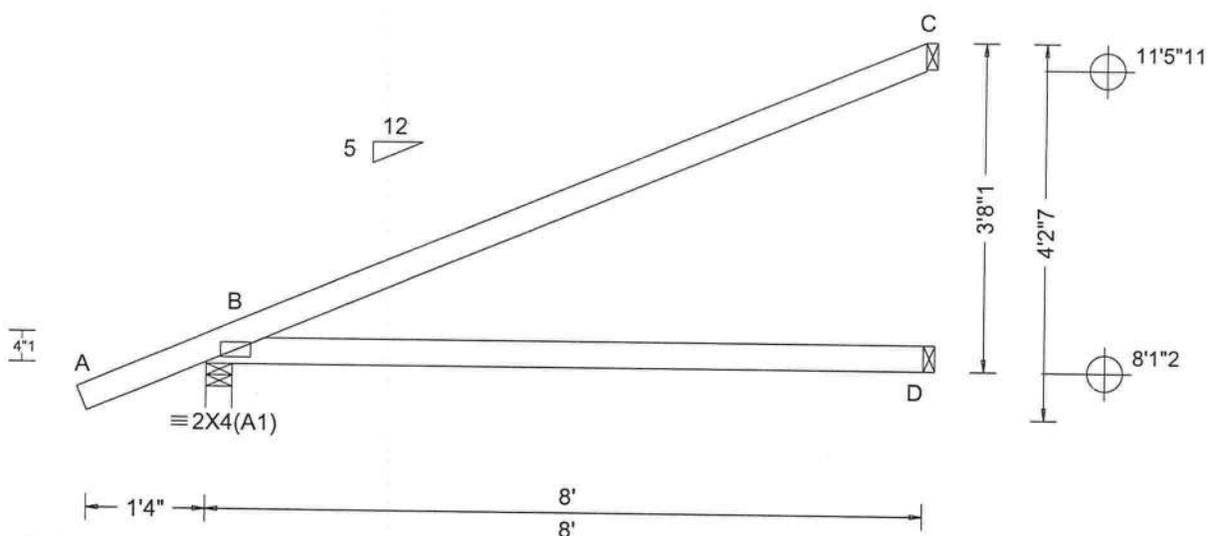
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Glenview, IL 60025



Loading Criteria (psf) TCELL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.020 B HORZ(TL): 0.037 B Creep Factor: 2.0 Max TC CSI: 0.684 Max BC CSI: 0.472 Max Web CSI: 0.000 VIEW Ver: 21.01.03A.0805.15	▲ Maximum Reactions (lbs)																														
				<table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non Gravity</th> </tr> <tr> <th>R+</th> <th>/R</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>398</td> <td>/</td> <td>/</td> <td>/259</td> <td>/89</td> <td>/156</td> </tr> <tr> <td>D</td> <td>144</td> <td>/</td> <td>/</td> <td>/80</td> <td>/</td> <td>/</td> </tr> <tr> <td>C</td> <td>193</td> <td>/</td> <td>/</td> <td>/104</td> <td>/126</td> <td>/</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 D Brg Wid = 1.5 C Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#	Loc	Gravity			Non Gravity			R+	/R	/Rh	/Rw	/U	/RL	B	398	/	/	/259	/89	/156	D	144	/	/	/80	/	/	C	193	/
Loc	Gravity			Non Gravity																														
	R+	/R	/Rh	/Rw	/U	/RL																												
B	398	/	/	/259	/89	/156																												
D	144	/	/	/80	/	/																												
C	193	/	/	/104	/126	/																												

Lumber
 Top chord: 2x4 SP #1;
 Bot chord: 2x4 SP #1;

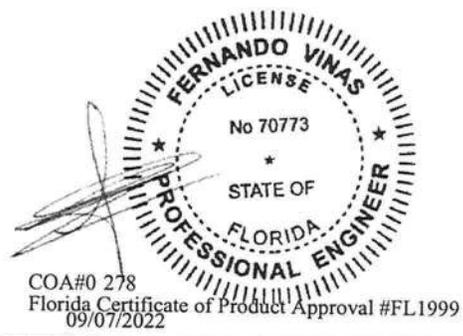
Plating Notes
 Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	1.39	8.00
BC	75	0.15	8.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.



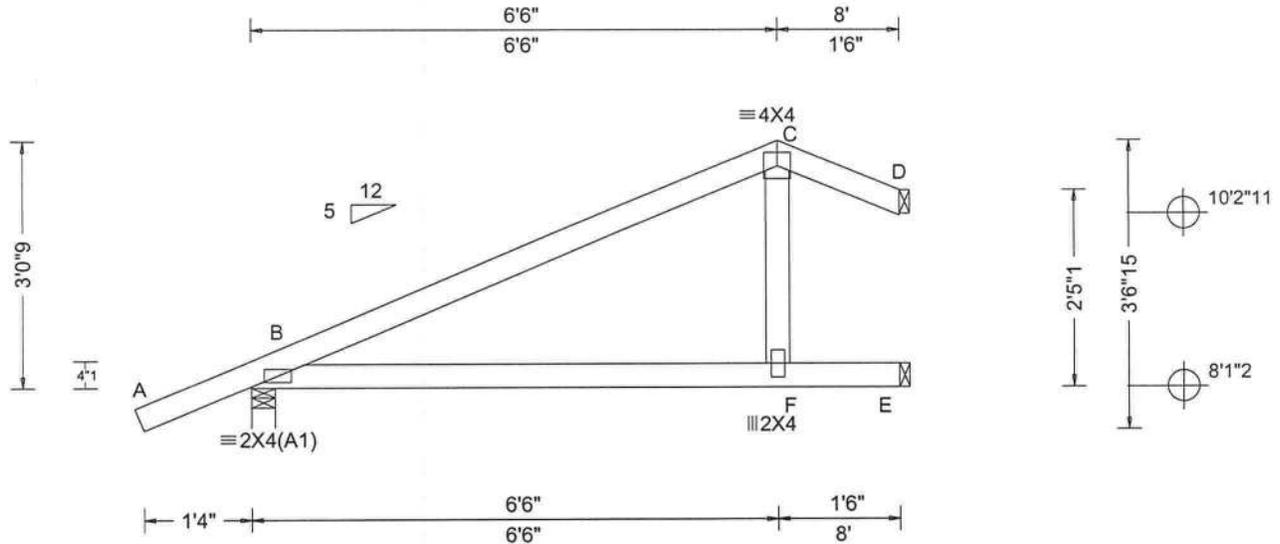
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)																																		
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.102 C 927 360 VERT(CL): 0.185 C 509 240 HORZ(LL): 0.088 D HORZ(TL): 0.160 D Creep Factor: 2.0 Max TC CSI: 0.671 Max BC CSI: 0.508 Max Web CSI: 0.306 VIEW Ver: 21.01.03A.0805.15	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non Gravity</th> </tr> <tr> <th>R+</th> <th>/R</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>398</td> <td>/</td> <td>/</td> <td>/256</td> <td>/105</td> <td>/109</td> </tr> <tr> <td>E</td> <td>195</td> <td>/</td> <td>/</td> <td>/110</td> <td>/75</td> <td>/</td> </tr> <tr> <td>D</td> <td>92</td> <td>/</td> <td>/</td> <td>/62</td> <td>/6</td> <td>/</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#</p>	Loc	Gravity			Non Gravity			R+	/R	/Rh	/Rw	/U	/RL	B	398	/	/	/256	/105	/109	E	195	/	/	/110	/75	/	D	92	/	/	/62	/6	/
Loc	Gravity			Non Gravity																																		
	R+	/R	/Rh	/Rw	/U	/RL																																
B	398	/	/	/256	/105	/109																																
E	195	/	/	/110	/75	/																																
D	92	/	/	/62	/6	/																																

Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

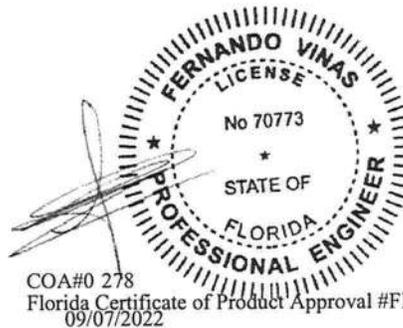
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	75	1.39	6.65
TC	18	6.65	8.00
BC	75	0.15	8.00

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.



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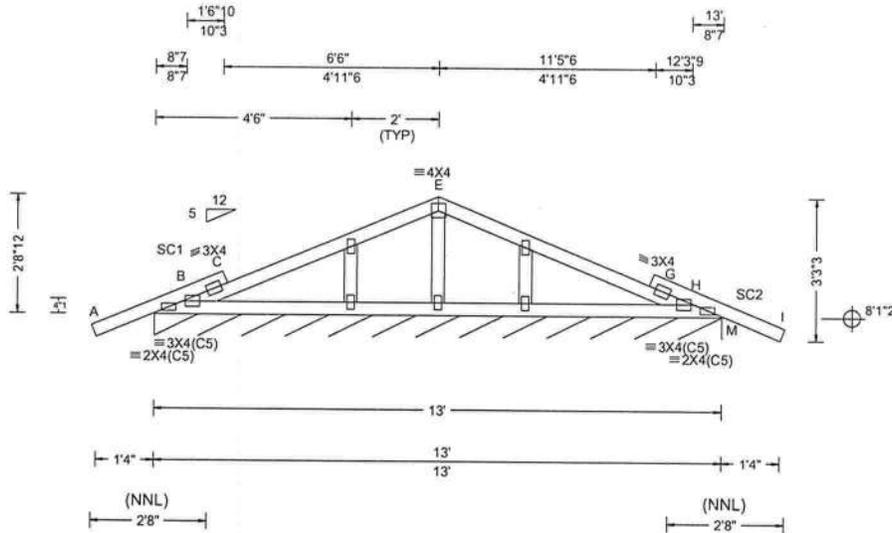
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/0(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.006 G 999 360 VERT(CL): 0.011 G 999 240 HORZ(LL): 0.002 C HORZ(TL): 0.004 C Creep Factor: 2.0 Max TC CSI: 0.213 Max BC CSI: 0.096 Max Web CSI: 0.035 VIEW Ver: 21.01.03A.0805.15	Gravity Non Gravity Loc R+ /R /Rh /Rw /U /RL M* 114 / / /47 /1 /5 Wind reactions based on MWFRS M Brg Wid = 156 Min Req = Bearing B Fcperp = 425psi. Members not listed have forces less than 375#

Lumber
Top chord: 2x4 SP #1;
Bot chord: 2x4 SP #1;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #1;
Stack Chord: SC2 2x4 SP #1;

Plating Notes
All plates are 2X4 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

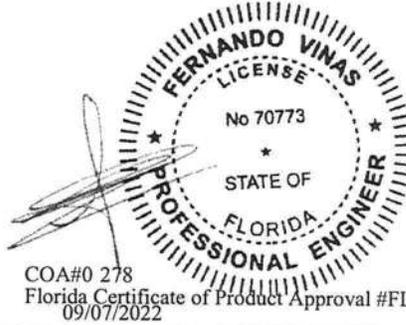
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	35	1.39	1.42
TC	71	1.06	6.50
TC	71	6.50	11.94
TC	35	11.58	14.39
BC	75	0.29	12.71

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Additional Notes
See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.
Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

Loading
Truss designed to support 1 4 0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.



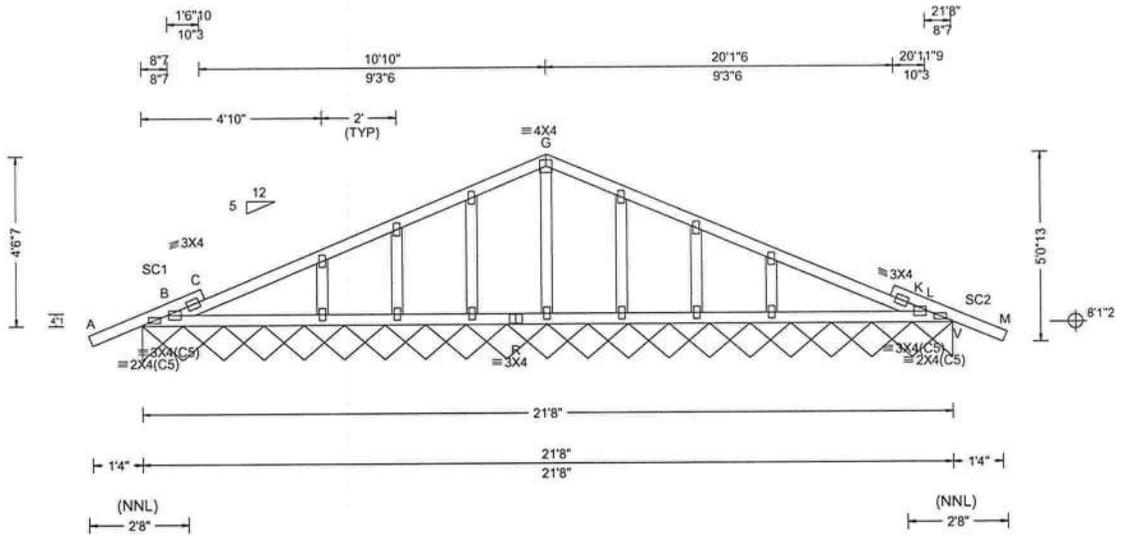
COA#0 278
Florida Certificate of Product Approval #FL1999
09/07/2022

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Loading Criteria (psf) TCCL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.009 C 999 360 VERT(CL): 0.016 C 999 240 HORZ(LL): 0.003 K HORZ(TL): 0.005 K Creep Factor: 2.0 Max TC CSI: 0.187 Max BC CSI: 0.111 Max Web CSI: 0.059 VIEW Ver: 21.01.03A.0805.15	▲ Maximum Reactions (lbs), or *=PLF <table style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Gravity</th> <th colspan="2">Non Gravity</th> </tr> <tr> <th>Loc</th> <th>R+ / R</th> <th>/ Rh</th> <th>/ Rw / U / RL</th> </tr> <tr> <td>V*</td> <td>113 /</td> <td>/</td> <td>/45 / /3</td> </tr> </table> Wind reactions based on MWFRS V Brg Wid = 260 Min Req = Bearing B Fcperp = 425psi. Members not listed have forces less than 375#	Gravity		Non Gravity		Loc	R+ / R	/ Rh	/ Rw / U / RL	V*	113 /	/	/45 / /3
Gravity		Non Gravity														
Loc	R+ / R	/ Rh	/ Rw / U / RL													
V*	113 /	/	/45 / /3													

Lumber
 Top chord: 2x4 SP #1;
 Bot chord: 2x4 SP #1;
 Webs: 2x4 SP #3;
 Stack Chord: SC1 2x4 SP #1;
 Stack Chord: SC2 2x4 SP #1;

Plating Notes
 All plates are 2X4 except as noted.
 Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

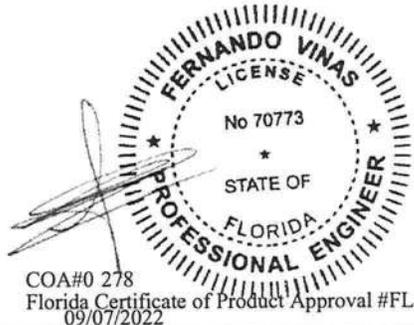
Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	35	1.39	1.42
TC	120	1.06	10.83
TC	120	10.83	20.61
TC	35	20.25	23.06
BC	75	0.29	21.38

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Additional Notes
 See DWGS A14015ENC160118 & GBLLETIN0118 for gable wind bracing and other requirements.
 Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

Loading
 Truss designed to support 1 4 0 top chord outlookers and cladding load not to exceed 6.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.



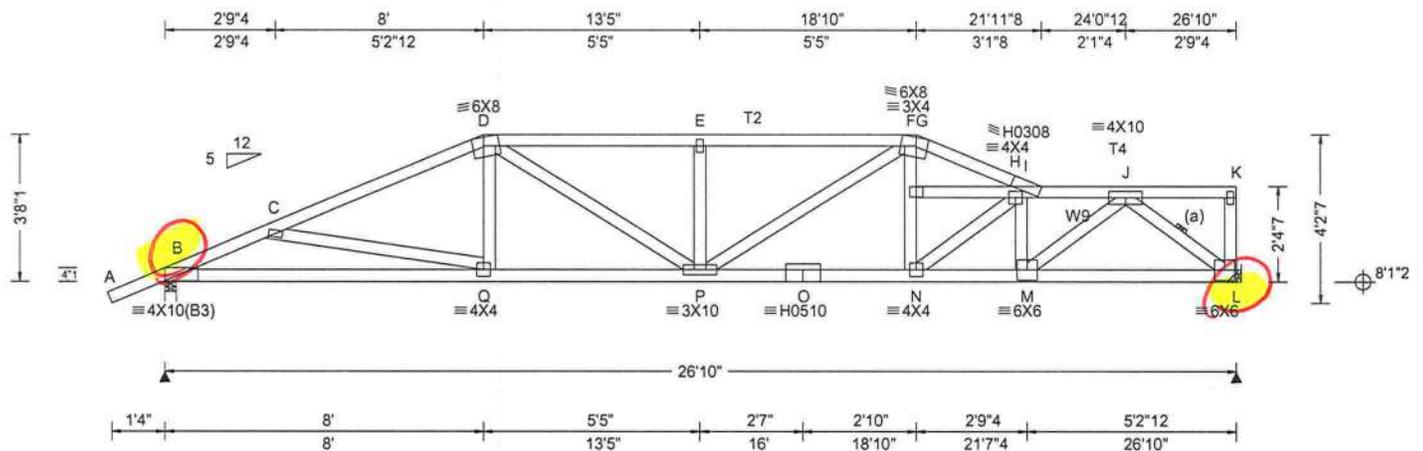
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Loading Criteria (psf) TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFERS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/0(0) Plate Type(s): WAVE, HS	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.278 E 999 360 VERT(CL): 0.515 E 621 240 HORZ(LL): 0.078 L HORZ(TL): 0.144 L Creep Factor: 2.0 Max TC CSI: 0.999 Max BC CSI: 0.957 Max Web CSI: 0.852 VIEW Ver: 21.01.03A.0805.15	▲ Maximum Reactions (lbs) Gravity Non Gravity Loc R+ /R /Rh /Rw /U /RL B 2443 / / / / 720 /80 L 2667 / / / / 761 / Wind reactions based on MWFERS B Brg Wid = 3.5 Min Req = 3.1 L Brg Wid = Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B C 1577 5310 G I 1458 5032 C D 1524 5284 H I 253 803 D E 1665 5685 I J 1575 5347 E G 1665 5685
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Lumber
Top chord: 2x4 SP #1; T2,T4 2x4 SP SS Dense;
Bot chord: 2x4 SP SS Dense;
Webs: 2x4 SP #3; W9 2x4 SP #1;

Bracing
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Purlins
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	21	1.39	8.00
TC	24	8.00	18.83
TC	27	18.83	21.58
TC	24	18.83	26.83
BC	63	0.15	26.83

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

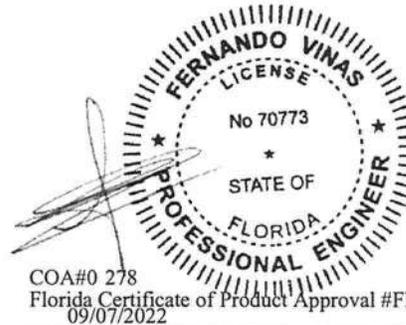
Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp. Chords Tens. Comp.
B Q 4820 1343 O N 4620 1274
Q P 4843 1310 N M 5543 1558
P O 4620 1274 M L 3124 859

Special Loads
(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From 55 plf at 1.45 to 55 plf at 8.00	TC: From 28 plf at 8.00 to 28 plf at 26.83
BC: From 4 plf at 1.45 to 4 plf at 0.00	BC: From 20 plf at 0.00 to 20 plf at 8.03
BC: From 10 plf at 8.03 to 10 plf at 26.83	TC: 289 lb Conc. Load at 8.03
TC: 193 lb Conc. Load at 10.06,12.06,14.06,16.06,18.06	TC: 92 lb Conc. Load at 20.06,22.06,24.06,26.06
BC: 599 lb Conc. Load at 8.03	BC: 144 lb Conc. Load at 10.06,12.06,14.06,16.06,18.06
BC: 195 lb Conc. Load at 20.06,22.06,24.06,26.06	

Plating Notes
All plates are 2X4 except as noted.
Plates sized for a minimum of 3.50 sq.in./piece.

Hangers / Ties
(J) Hanger Support Required, by others



COA#0 278
Florida Certificate of Product Approval #FL1999
09/07/2022

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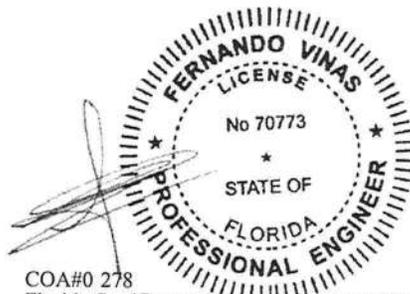
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Wind

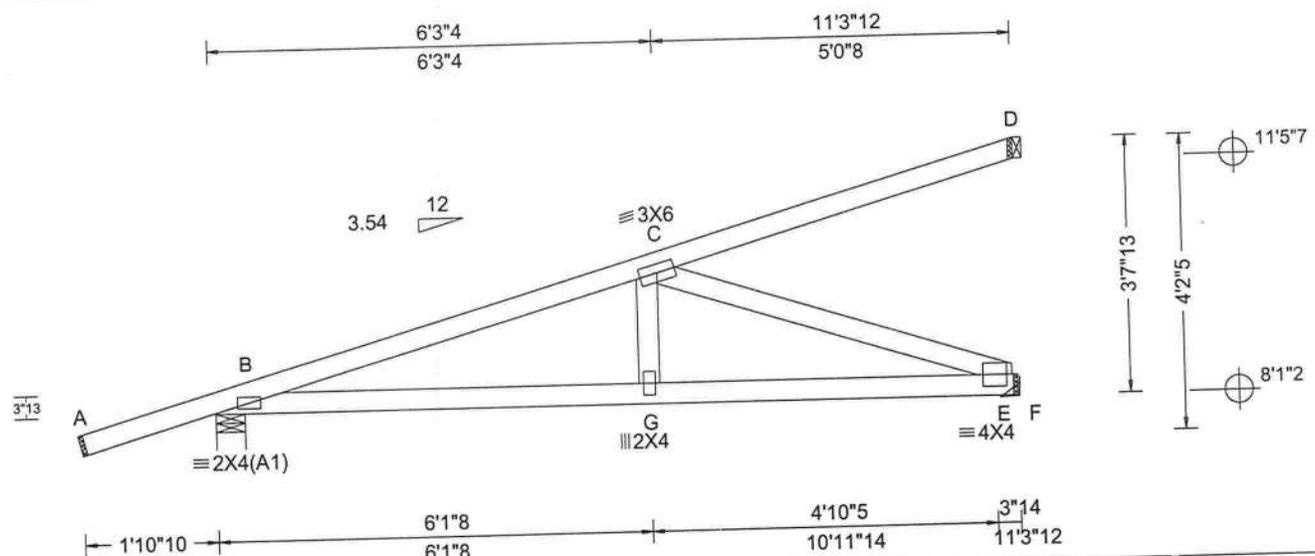
Wind loads and reactions based on MWFRS.
 Right end vertical exposed to wind pressure.
 Deflection meets L/180.
 Wind loading based on both gable and hip roof types.



COA#0 278
 Florida Certificate of Product Approval #FL1999
 09/07/2022

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Loading Criteria (psf) TCCL: 20.00 TCCL: 7.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCCL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.033 G 999 360 VERT(CL): 0.062 G 999 240 HORZ(LL): 0.009 F HORZ(TL): 0.017 F Creep Factor: 2.0 Max TC CSI: 0.962 Max BC CSI: 0.606 Max Web CSI: 0.656 VIEW Ver: 21.01.03A.0805.15	▲ Maximum Reactions (lbs)																																			
				<table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non Gravity</th> </tr> <tr> <th>R+</th> <th>/R</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>430</td> <td>/</td> <td>/</td> <td>/</td> <td>/126</td> <td>/</td> </tr> <tr> <td>E</td> <td>455</td> <td>/</td> <td>/</td> <td>/</td> <td>/91</td> <td>/</td> </tr> <tr> <td>D</td> <td>96</td> <td>/</td> <td>/</td> <td>/</td> <td>/55</td> <td>/</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS B Brg Wid = 4.9 Min Req = 1.5 E Brg Wid = 1.5 D Brg Wid = 1.5 Bearing B Fcperp = 425psi. Members not listed have forces less than 375#</p>						Loc	Gravity			Non Gravity			R+	/R	/Rh	/Rw	/U	/RL	B	430	/	/	/	/126	/	E	455	/	/	/	/91	/	D	96	/
Loc	Gravity			Non Gravity																																			
	R+	/R	/Rh	/Rw	/U	/RL																																	
B	430	/	/	/	/126	/																																	
E	455	/	/	/	/91	/																																	
D	96	/	/	/	/55	/																																	

Lumber
 Top chord: 2x4 SP #1;
 Bot chord: 2x4 SP #1;
 Webs: 2x4 SP #3;

Special Loads
 (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From 0 plf at 1.97 to 55 plf at 0.08
TC: From 2 plf at 0.08 to 2 plf at 11.31
BC: From 0 plf at 1.97 to 4 plf at 0.08
BC: From 2 plf at 0.00 to 2 plf at 11.31

TC: 38 lb Conc. Load at 2.81
 TC: 168 lb Conc. Load at 5.64
 TC: 277 lb Conc. Load at 8.47
 BC: 54 lb Conc. Load at 2.81
 BC: 133 lb Conc. Load at 5.64
 BC: 210 lb Conc. Load at 8.47

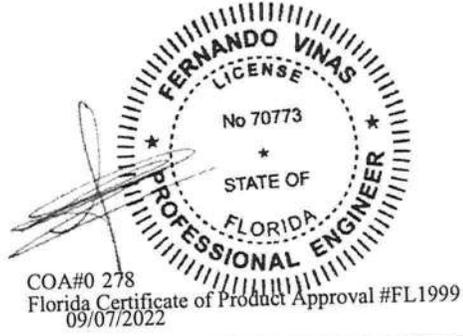
Plating Notes
 Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	66	1.93	11.31
BC	120	0.15	11.31

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
 Wind loads and reactions based on MWFRS.
 Wind loading based on both gable and hip roof types.



B	C	292	1106
---	---	-----	------

Maximum Bot Chord Forces Per Ply (lbs)
 Chords Tens.Comp. Chords Tens. Comp.

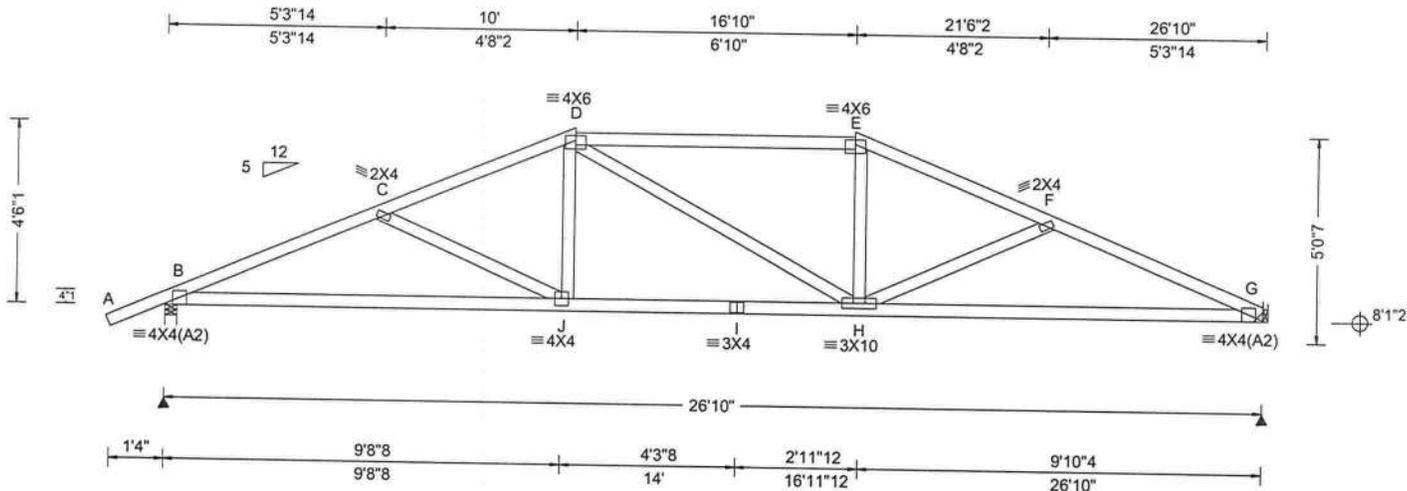
B	G	1055	277	G	F	1037	281
---	---	------	-----	---	---	------	-----

Maximum Web Forces Per Ply (lbs)
 Webs Tens.Comp.

C	F	300	1106
---	---	-----	------

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Loading Criteria (psf) TCELL: 20.00 TCCL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.088 J 999 360 VERT(CL): 0.163 J 999 240 HORZ(LL): 0.034 G HORZ(TL): 0.064 G Creep Factor: 2.0 Max TC CSI: 0.954 Max BC CSI: 0.997 Max Web CSI: 0.157 VIEW Ver: 21.01.03A.0805.15	▲ Maximum Reactions (lbs) Gravity Non Gravity Loc R+ /R /Rh /Rw /U /RL B 1095 / / /604 /304 /128 G 1005 / / /532 /265 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 G Brg Wid = Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.					
				B C 1085 2011 E F 989 1732 C D 988 1729 F G 1099 2035 D E 978 1555					

Lumber
 Top chord: 2x4 SP #1;
 Bot chord: 2x4 SP #1;
 Webs: 2x4 SP #3;

Plating Notes
 Plates sized for a minimum of 3.50 sq.in./piece.

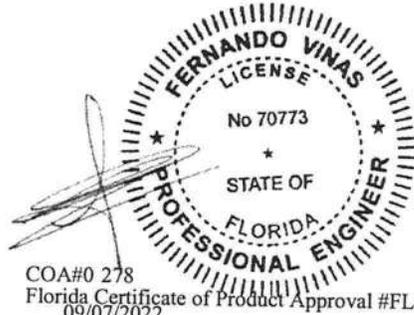
Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	51	1.39	10.00
TC	24	10.00	16.83
TC	50	16.83	26.83
BC	103	0.15	26.71

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Hangers / Ties
 (J) Hanger Support Required, by others

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.



Maximum Bot Chord Forces Per Ply (lbs)
 Chords Tens.Comp. Chords Tens. Comp.

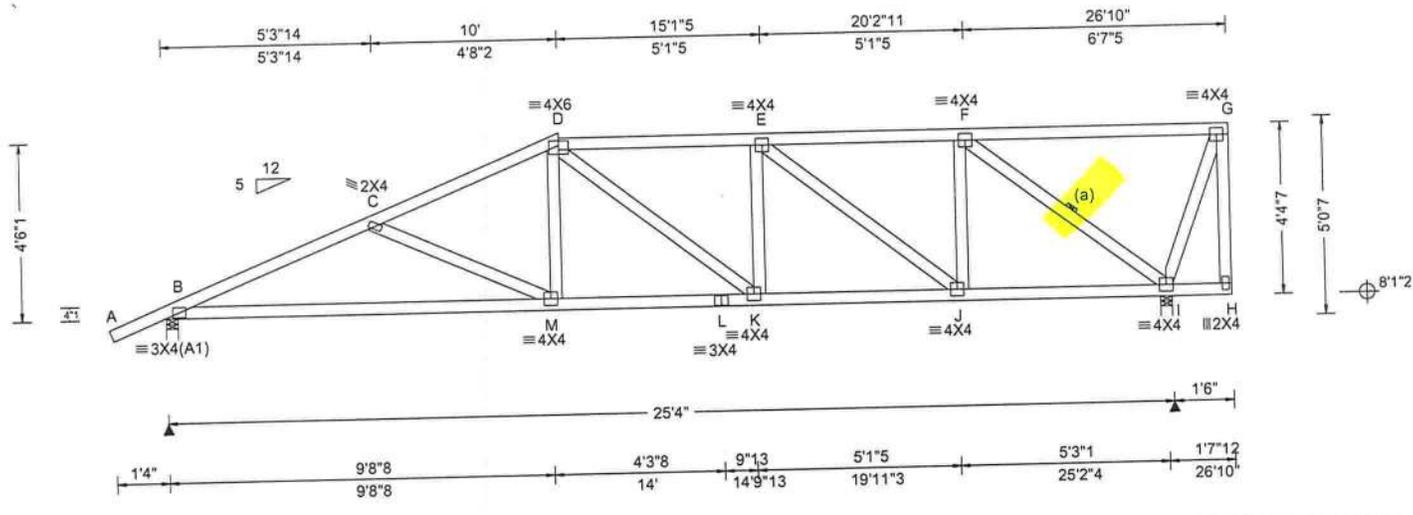
B J	1813	949	I H	1543	793
J I	1543	793	H G	1840	947

Maximum Web Forces Per Ply (lbs)
 Webs Tens.Comp. Webs Tens. Comp.

J D	385	0	E H	391	0
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Loading Criteria (psf)

TCLL: 20.00
 TCDL: 7.00
 BCCL: 0.00
 BCDL: 10.00
 Des Ld: 37.00
 NCBCLL: 10.00
 Soffit: 2.00
 Load Duration: 1.25
 Spacing: 24.0"

Wind Criteria

Wind Std: ASCE 7 16
 Speed: 140 mph
 Enclosure: Closed
 Risk Category: II
 EXP: C Kzt: NA
 Mean Height: 15.00 ft
 TCDL: 4.2 psf
 BCDL: 6.0 psf
 MWFRS Parallel Dist: h/2 to h
 C&C Dist a: 3.00 ft
 Loc. from endwall: not in 9.00 ft
 GCpi: 0.18
 Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
 Pf: NA Ce: NA
 Lu: NA Cs: NA
 Snow Duration: NA

Building Code:
 FBC 7th Ed. 2020 Res.
 TPI Std: 2014
 Rep Fac: Yes
 FT/RT:(0/0)0(0)
 Plate Type(s):
 WAVE

Defl/CSI Criteria

PP Deflection in loc L/defl L/#
 VERT(LL): 0.068 M 999 360
 VERT(CL): 0.127 M 999 240
 HORZ(LL): 0.027 I
 HORZ(TL): 0.050 I
 Creep Factor: 2.0
 Max TC CSI: 0.955
 Max BC CSI: 0.967
 Max Web CSI: 0.701

VIEW Ver: 21.01.03A.0805.15

▲ Maximum Reactions (lbs)

Loc	Gravity			Non Gravity		
	R+	/R	/Rh	/Rw	/U	/RL
B	1036	/	/	/601	/286	/233
I	1066	/	/	/528	/294	/

Wind reactions based on MWFRS
 B Brg Wid = 3.5 Min Req = 1.5
 I Brg Wid = 3.5 Min Req = 1.5
 Bearings B & I Fcperp = 425psi.
 Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.	
	B	C		D	E
B	1062	1872	D	1065	1408
C	963	1570	E	811	995

Lumber

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

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

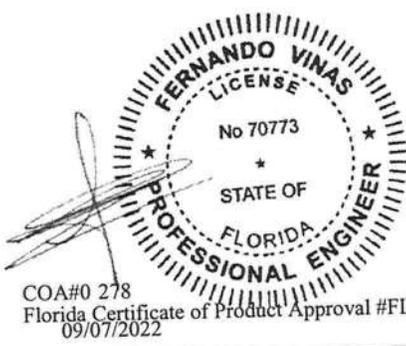
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	53	1.39	10.00
TC	24	10.00	26.83
BC	104	0.15	26.83

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads based on MWFRS with additional C&C member design.
 Right end vertical exposed to wind pressure.
 Deflection meets L/180.
 Right cantilever is not exposed to wind
 Wind loading based on both gable and hip roof types.



Maximum Bot Chord Forces Per Ply (lbs)

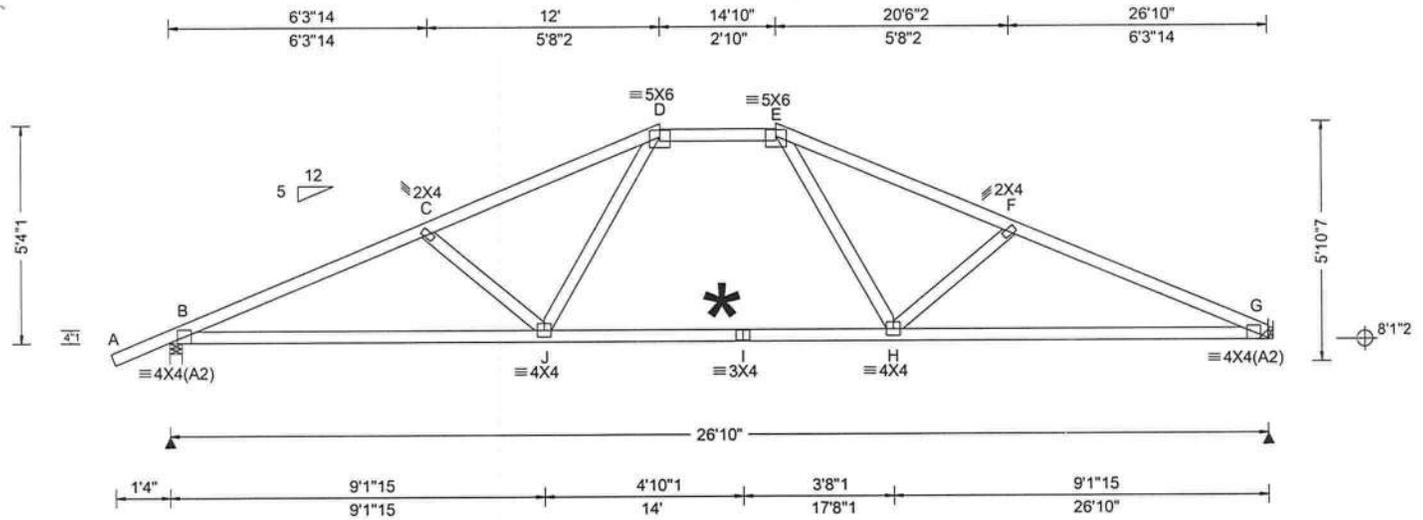
Chords	Tens.Comp.		Chords	Tens. Comp.	
	B	M		K	J
B	1686	1220	K	1401	1097
M	1389	1031	J	963	812
L	1389	1031			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. Comp.	
	M	D		J	F
M	389	0	J	472	157
E	358	532	F	1059	1308

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Loading Criteria (psf) TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.103 E 999 360 VERT(CL): 0.258 E 999 240 HORZ(LL): 0.032 G HORZ(TL): 0.077 D Creep Factor: 2.0 Max TC CSI: 0.999 Max BC CSI: 0.966 Max Web CSI: 0.194 VIEW Ver: 21.01.03A.0805.15	▲ Maximum Reactions (lbs) Gravity Non Gravity Loc R+ /R /Rh /Rw /U /RL B 1095 / / /602 /302 /149 G 1005 / / /530 /264 / Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 G Brg Wid = Bearing B Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B C 874 1999 E F 788 1750 C D 779 1737 F G 883 2020 D E 732 1320
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Lumber

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

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	52	1.39	12.00
TC	24	12.00	14.83
TC	51	14.83	26.83
BC	105	0.15	26.71

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

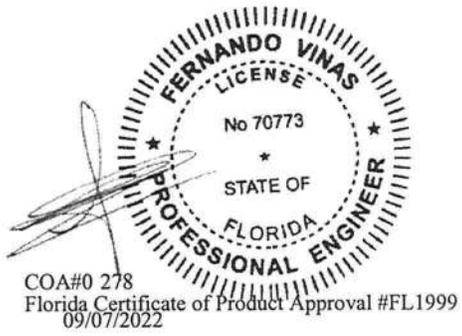
Hangers / Ties

(J) Hanger Support Required, by others

Wind

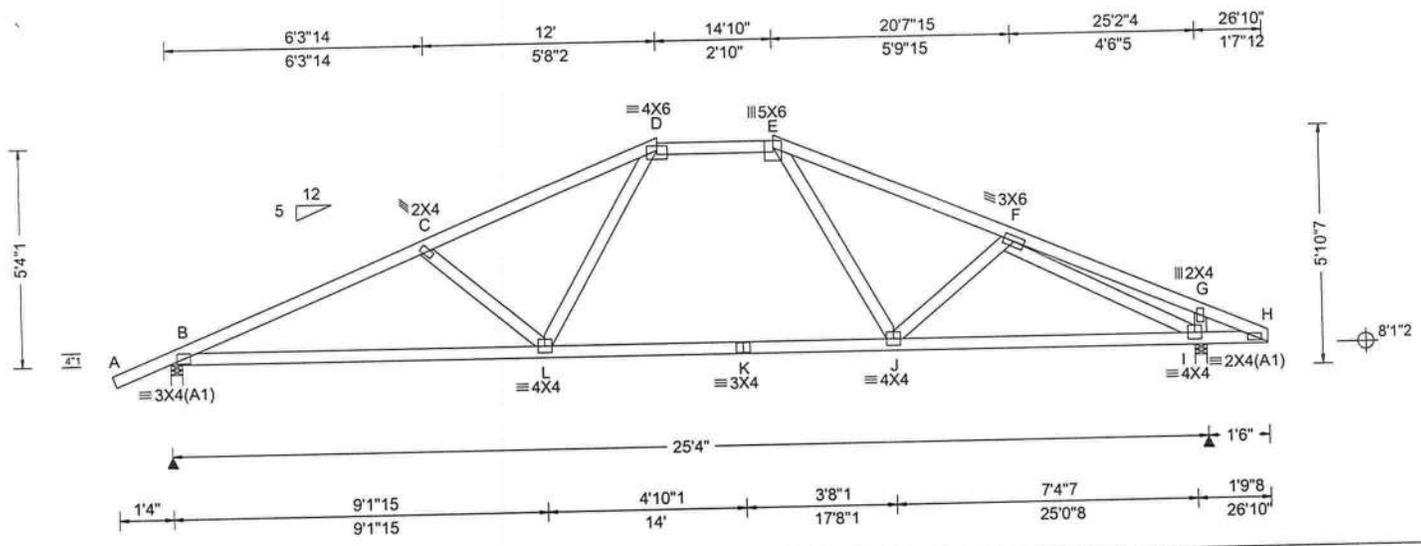
Wind loads based on MWFRS with additional C&C member design.
Wind loading based on both gable and hip roof types.

* Bottom chord panel has not been designed for any additional load.



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Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0"

Wind Criteria

Wind Std: ASCE 7 16
 Speed: 140 mph
 Enclosure: Closed
 Risk Category: II
 EXP: C Kzt: NA
 Mean Height: 15.00 ft
 TCCL: 4.2 psf
 BCCL: 6.0 psf
 MWFRS Parallel Dist: h/2 to h
 C&C Dist a: 3.00 ft
 Loc. from endwall: not in 9.00 ft
 GCpi: 0.18
 Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
 Pf: NA Ce: NA
 Lu: NA Cs: NA
 Snow Duration: NA

Building Code:
 FBC 7th Ed. 2020 Res.
 TPI Std: 2014
 Rep Fac: Yes
 FT/RT:20(0)/0(0)
 Plate Type(s):
 WAVE

Defl/CSI Criteria

PP Deflection in loc L/defl L/#
 VERT(LL): 0.119 D 999 360
 VERT(CL): 0.282 D 999 240
 HORZ(LL): 0.039 D
 HORZ(TL): 0.092 D
 Creep Factor: 2.0
 Max TC CSI: 0.992
 Max BC CSI: 0.978
 Max Web CSI: 0.796

VIEW Ver: 21.01.03A.0805.15

▲ Maximum Reactions (lbs)

Loc	Gravity			Non Gravity		
	R+	/R	/Rh	/Rw	/U	/RL
B	1030	/	/	1577	1285	1149
I	1072	/	/	1566	1282	/

Wind reactions based on MWFRS
 B Brg Wid = 3.5 Min Req = 1.5
 I Brg Wid = 3.5 Min Req = 1.5
 Bearings B & I Fcperp = 425psi.
 Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.	
	B	C		D	E
B	809	1842	D	664	1147
C	710	1568	E	657	1418

Lumber
 Top chord: 2x4 SP #1;
 Bot chord: 2x4 SP #1;
 Webs: 2x4 SP #3;

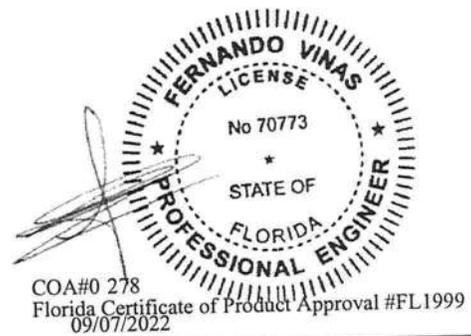
Plating Notes
 Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	53	1.39	12.00
TC	24	12.00	14.83
TC	62	14.83	26.83
BC	112	0.15	26.83

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Right cantilever is not exposed to wind
 Wind loading based on both gable and hip roof types.



Maximum Bot Chord Forces Per Ply (lbs)

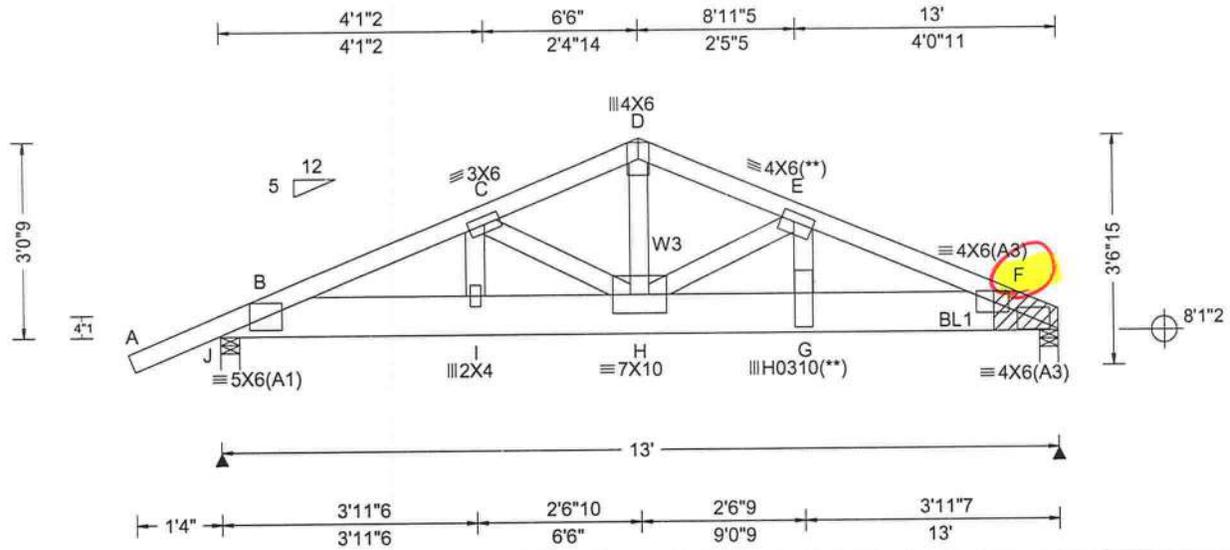
Chords	Tens.Comp.		Chords	Tens. Comp.	
	B	L		K	J
B	1653	694	K	1147	440
L	1147	440	J	1303	538

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. Comp.	
	C	L		F	I
C	286	409	F	673	1432
L	515	88	D		

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Loading Criteria (psf)

TCLL: 20.00
 TCDL: 7.00
 BCLL: 0.00
 BCDL: 10.00
 Des Ld: 37.00
 NCBCLL: 10.00
 Soffit: 2.00
 Load Duration: 1.25
 Spacing: 24.0 "

Wind Criteria

Wind Std: ASCE 7 16
 Speed: 140 mph
 Enclosure: Closed
 Risk Category: II
 EXP: C Kzt: NA
 Mean Height: 15.00 ft
 TCDL: 4.2 psf
 BCDL: 6.0 psf
 MWFRS Parallel Dist: 0 to h/2
 C&C Dist a: 3.00 ft
 Loc. from endwall: Any
 GCpi: 0.18
 Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)

Pg: NA Ct: NA CAT: NA
 Pf: NA Ce: NA
 Lu: NA Cs: NA
 Snow Duration: NA

Building Code:
 FBC 7th Ed. 2020 Res.
 TPI Std: 2014
 Rep Fac: Varies by Ld Case
 FT/RT:20(0)0(0)
 Plate Type(s):
 WAVE, HS

Defl/CSI Criteria

PP Deflection in loc L/defl L/#
 VERT(LL): 0.116 G 999 360
 VERT(CL): 0.212 G 719 240
 HORZ(LL): 0.025 F
 HORZ(TL): 0.046 F
 Creep Factor: 2.0
 Max TC CSI: 0.996
 Max BC CSI: 0.988
 Max Web CSI: 0.919

VIEW Ver: 21.01.03A.0805.15

▲ Maximum Reactions (lbs)

Loc	Gravity			Non Gravity		
	R+	/R	/Rh	/Rw	/U	/RL
J	1857	/	/	/	/	/544
F	3831	/	/	/	/	/1080

Wind reactions based on MWFRS
 J Brg Wid = 3.5 Min Req = 2.3
 F Brg Wid = 3.5 Min Req =
 Bearings J & F Fcperp = 425psi.
 Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B C	1129 4005	D E	1190 4185
C D	1191 4188	E F	1968 6916

Lumber

Top chord: 2x4 SP #1;
 Bot chord: 2x8 SP SS Dense;
 Webs: 2x4 SP #3; W3 2x4 SP #1;

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
 TC: From 55 plf at 1.45 to 55 plf at 13.00
 BC: From 4 plf at 1.45 to 4 plf at 0.00
 BC: From 20 plf at 0.00 to 20 plf at 8.06
 BC: From 10 plf at 8.06 to 10 plf at 13.00
 BC: 2667 lb Conc. Load at 8.06
 BC: 1005 lb Conc. Load at 10.06,12.06

Bearing Block(s)

Brg blocks:0.128"x3", min. nails
 brg x loc #blocks length/blk #nails/blk wall plate
 2 12.708' 1 12" 9 SPF Standard
 Brg block to be same size and species as chord.
 Refer to drawing C>NNAILSP1014 for more information.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B I	3671 1027	H G	6234 1769
I H	3688 1035	G F	6373 1806

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D H	3014 815	E G	2412 644
H E	808 2822		

Plating Notes

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.
 Plates sized for a minimum of 3.50 sq.in./piece.

Purlins

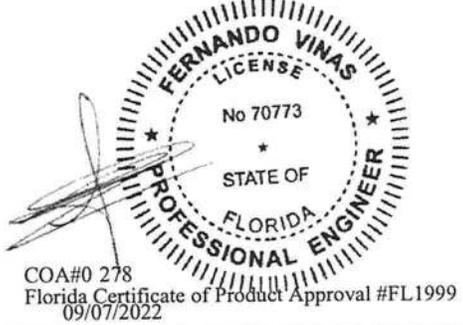
In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	33	1.39	6.50
TC	19	6.50	12.85
BC	81	0.15	12.85

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind

Wind loads and reactions based on MWFRS.
 Wind loading based on both gable and hip roof types.



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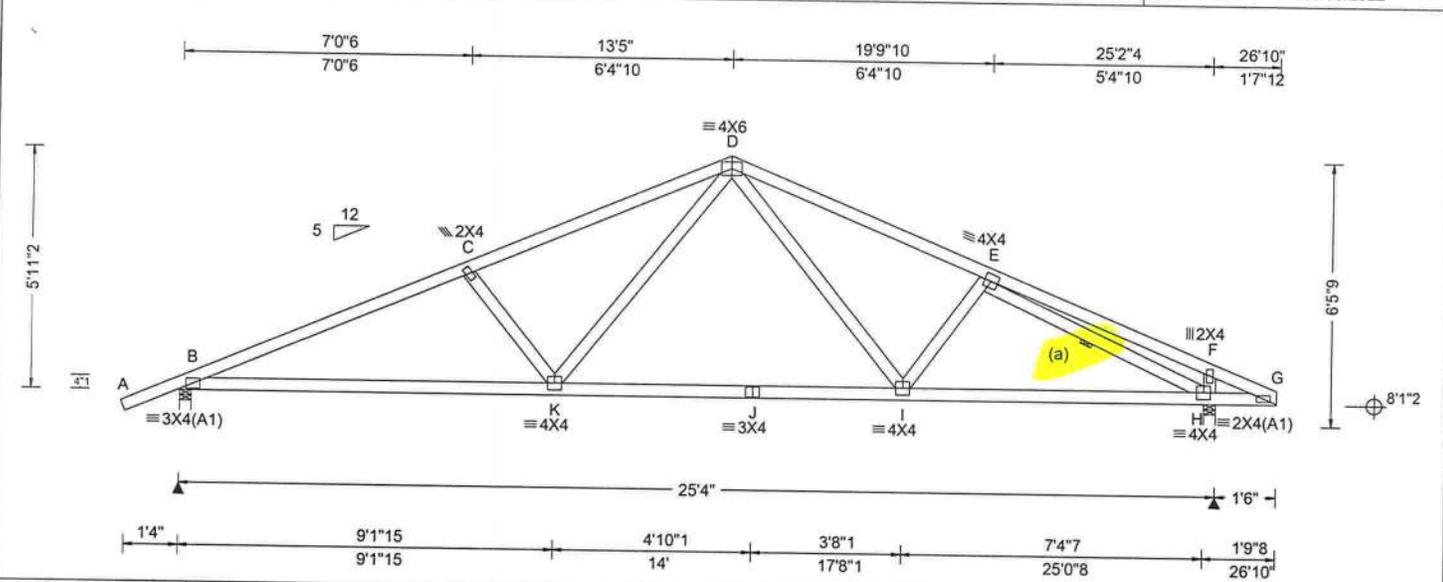
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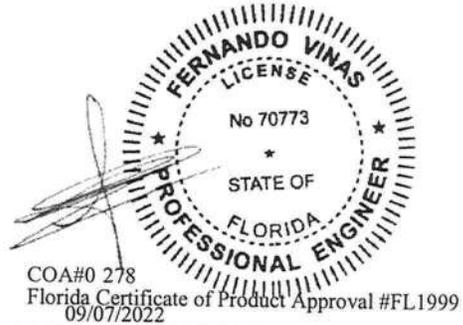
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Loading Criteria (psf) TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7 16 Speed: 140 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 7th Ed. 2020 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.069 K 999 360 VERT(CL): 0.128 K 999 240 HORZ(LL): 0.025 F HORZ(TL): 0.047 F Creep Factor: 2.0 Max TC CSI: 0.976 Max BC CSI: 0.585 Max Web CSI: 0.982 VIEW Ver: 21.01.03A.0805.15	▲ Maximum Reactions (lbs)					
				Gravity		Non Gravity			
		Loc	R+	/ R	/ Rh	/ Rw	/ U	/ RL	
		B	1030	/	/	/573	/99	/165	
		H	1072	/	/	/562	/85	/	
Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 H Brg Wid = 3.5 Min Req = 1.5 Bearings B & H Fcperp = 425psi. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.									
		B C	656	1810	D E	561	1415		
		C D	609	1587					

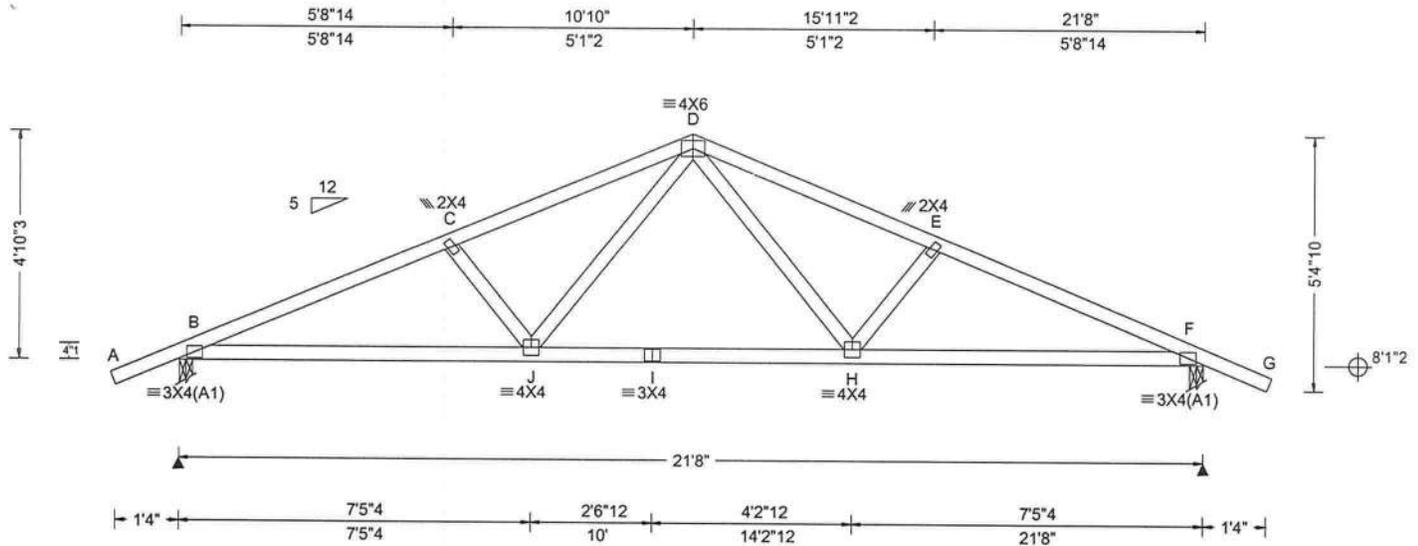
Lumber Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3;	Wind Wind loads based on MWFRS with additional C&C member design. Right cantilever is not exposed to wind Wind loading based on both gable and hip roof types.																
Bracing (a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.																	
Plating Notes Plates sized for a minimum of 3.50 sq.in./piece.																	
Purlins In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows: <table border="1"> <tr> <th>Chord</th> <th>Spacing(in oc)</th> <th>Start(ft)</th> <th>End(ft)</th> </tr> <tr> <td>TC</td> <td>53</td> <td>1.39</td> <td>13.42</td> </tr> <tr> <td>TC</td> <td>60</td> <td>13.42</td> <td>26.83</td> </tr> <tr> <td>BC</td> <td>120</td> <td>0.15</td> <td>26.83</td> </tr> </table> Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.	Chord	Spacing(in oc)	Start(ft)	End(ft)	TC	53	1.39	13.42	TC	60	13.42	26.83	BC	120	0.15	26.83	
Chord	Spacing(in oc)	Start(ft)	End(ft)														
TC	53	1.39	13.42														
TC	60	13.42	26.83														
BC	120	0.15	26.83														
Loading Truss passed check for 20 psf additional bottom chord live load in areas with 42" high x 24" wide clearance. Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.																	



Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.					
B K	1615	546	J I	1038	281
K J	1038	281	I H	1332	430
Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp.					
K D	600	156	E H	516	1394

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				Gravity			Non Gravity																													
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Chords	Tens.Comp.	Chords	Tens. Comp.																																	
B C	914 1548	D E	855 1374																																	
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Lumber
 Top chord: 2x4 SP #1;
 Bot chord: 2x4 SP #1;
 Webs: 2x4 SP #3;

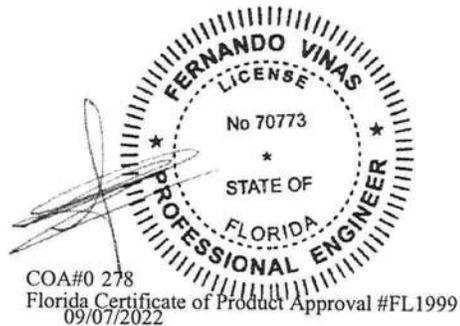
Plating Notes
 Plates sized for a minimum of 3.50 sq.in./piece.

Purlins
 In lieu of structural panels or rigid ceiling use purlins to laterally brace chords as follows:

Chord	Spacing(in oc)	Start(ft)	End(ft)
TC	59	1.39	10.83
TC	59	10.83	23.06
BC	120	0.15	21.52

Apply purlins to any chords above or below fillers at 24" OC unless shown otherwise above.

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.



Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
J D	459 226	D H	459 226

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ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Gable Stud Reinforcement Detail

Gable Vertical Spacing	2x4 Vertical Species	Brace Grade	No Braces		(1) 1x4 'L' Brace		(2) 2x4 'L' Brace		(1) 2x6 'L' Brace		(2) 2x6 'L' Brace	
			Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
Max Gable Vertical Length	SPF	#1 / #2	4' 3"	7' 7"	8' 7"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			4' 1"	7' 1"	8' 6"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"	14' 0"
24"	HF	Standard	4' 1"	6' 0"	7' 7"	10' 1"	10' 6"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
			4' 1"	7' 4"	8' 8"	10' 4"	10' 9"	13' 8"	14' 0"	14' 0"	14' 0"	14' 0"
R4"	SP	#1	4' 3"	7' 3"	8' 11"	10' 3"	10' 8"	12' 5"	13' 4"	14' 0"	14' 0"	14' 0"
			4' 2"	6' 4"	7' 11"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"	14' 0"
12" O.C.	DFL	Standard	4' 0"	5' 3"	7' 0"	9' 6"	10' 2"	11' 10"	14' 0"	14' 0"	14' 0"	14' 0"
			4' 11"	8' 4"	9' 10"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	#1 / #2	4' 8"	8' 1"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			4' 8"	8' 1"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	HF	Standard	4' 8"	8' 1"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			4' 8"	8' 1"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	SP	#1	5' 1"	8' 5"	9' 11"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
			4' 11"	8' 4"	9' 10"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	DFL	#2	4' 9"	7' 4"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
			4' 9"	7' 4"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#1 / #2	5' 1"	9' 2"	10' 10"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			5' 1"	9' 2"	10' 10"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	HF	Standard	5' 1"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			5' 1"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SP	#2	5' 3"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
			5' 3"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	DFL	#3	5' 3"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			5' 3"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	DFL	Standard	5' 1"	7' 5"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
			5' 1"	7' 5"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"



Bracing Group Species and Grades

Group A		Group B	
Spruce-Pine-Fir	Hem-Fir	Southern Pine	Standard
#1 / #2	#3	#1	#2
Standard	Stud	Standard	Stud

Group B	
Douglas Fir-Larch	Southern Pine
#3	#1
Stud	Standard

Group A		Group B	
Spruce-Pine-Fir	Hem-Fir	Douglas Fir-Larch	Southern Pine
#1 / #2	#3	#1	#2
Standard	Stud	Standard	Stud

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 55 psf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.

* For (1) 'L' brace space nails at 2' o.c. in 18" end zones and 4' o.c. between zones.

* For (2) 'L' braces space nails at 3' o.c. in 18" end zones and 6' o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.

Refer to chart above for gable vertical length.

Continuous Bevelled Gable Vertical Length

18" 18"

Synn About

'L' Brace End Zones, typ.

ALPINE AN ITW COMPANY

155 Harlem Ave North Building, 4th Floor Glenview, IL 60025

MAX. SPACING 24.0"

MAX. TOT. L.D. 60 PSF

Florida Certificate of Professional Engineer

COA#0 278

Florida State Board of Professional Engineers

NO 70778

ASCE 7-16: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

DATE 01/26/2018

REF ASCE7-16-GABI4015

DRWG A14015ENC160118

NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

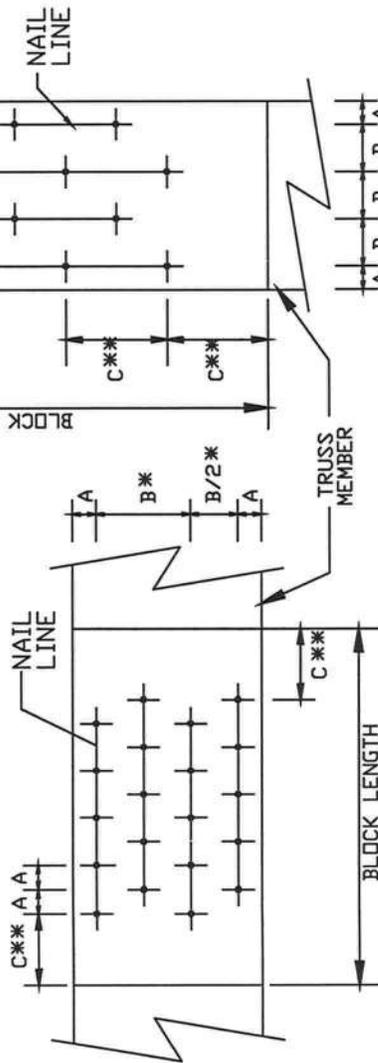
D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW.

* SPACING MAY BE REDUCED BY 50%

** SPACING MAY BE REDUCED BY 33%

DIRECTION OF LOAD AND NAIL ROWS



LOAD APPLIED PERPENDICULAR TO GRAIN

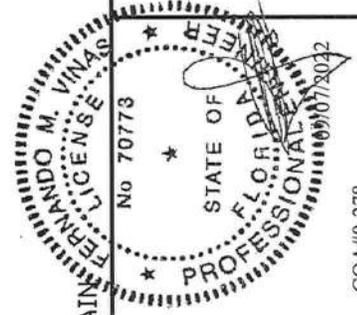
LOAD APPLIED PARALLEL TO GRAIN

MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES			
	A	B*	C**	D
8d BOX (0.113" X 2.5", MIN)	3/4"	1 3/8"	1 3/4"	7/8"
10d BOX (0.128" X 3", MIN)	7/8"	1 5/8"	2"	1"
12d BOX (0.128" X 3.25", MIN)	7/8"	1 5/8"	2"	1"
16d BOX (0.135" X 3.5", MIN)	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148" X 4", MIN)	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131" X 2.5", MIN)	7/8"	1 5/8"	2"	1"
10d COMMON (0.148" X 3", MIN)	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148" X 3.25", MIN)	1"	1 7/8"	2 1/4"	1 1/8"
16d COMMON (0.162" X 3.5", MIN)	1"	2"	2 1/2"	1 1/4"
GUN (0.120" X 2.5", MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131" X 2.5", MIN)	7/8"	1 5/8"	2"	1"
GUN (0.120" X 3", MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131" X 3", MIN)	7/8"	1 5/8"	2"	1"

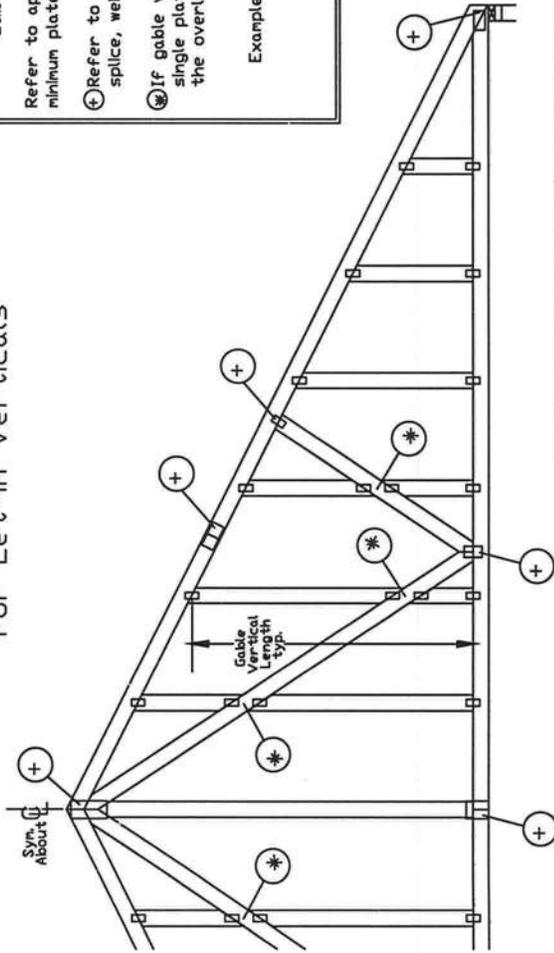
INSTALLERS MUST READ AND FOLLOW ALL NOTES ON THIS DRAWING THE INSTALLERS.
 TRUSSES RECEIVE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO AND FOLLOW THE LATEST EDITION OF IBCS1 BUILDING COMPONENT SAFETY INFORMATION, BY TPI AND SBCA FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. INSTALLERS SHALL PROVIDE TEMPORARY BRACING PER IBCS1. UNLESS NOTED OTHERWISE, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL SHEETING AND BOTTOM CHORD SHALL HAVE BRACING INSTALLED PER IBCS1 SECTIONS 33.37 OR 310, AS APPLICABLE. APPLY PLATES TO EACH FACE OF TRUSS AND POSITIVE CONNECTION SHALL BE MADE TO EACH END OF TRUSS. ALL TRUSS CONNECTIONS SHALL BE MADE TO GRAIN UNLESS NOTED OTHERWISE. ALPINE, A DIVISION OF ITW BUILDING CONSTRUCTION GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DRAWING OR THE FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH ANSI/TPI 1, OR FOR HANDLING, SHIPPING, INSTALLATION & BRACING OF TRUSSES.
 A SEAL ON THIS DRAWING OR COVER PAGE LISTING THIS DRAWING, INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE DESIGN SHOWN. THE SUFFICIENCY AND USE OF THIS DRAWING FOR ANY STRUCTURE IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC.2.
 For more information see this job's general notes page and these web sites:
 ALPINE: www.alpinetruss.com TPI: www.tpiinc.org SBCA: www.sbcacomponents.com IBC: www.ibccsa.org

ALPINE
 AN ITW COMPANY
 155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025



REF	NAIL SPACE
DATE	10/01/14
DRWG	CNNAILSP1014

Gable Detail For Let-in Verticals

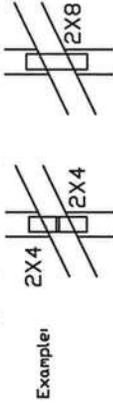


Gable Truss Plate Sizes

Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

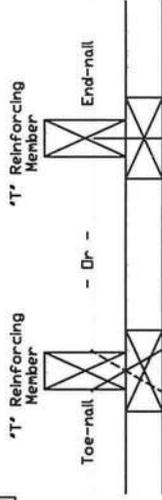
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.



Example:

'T' Reinforcement Attachment Detail



To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate Alpine gable detail).

Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

Web Length Increase w/ 'T' Brace

'T' Reinf. Mbr. Size	'T' Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph
 Mean Roof Height = 30 ft, Kzt = 1.00
 Gable Vertical = 24' o.c. SP #3
 'T' Reinforcing Member Size = 2x4
 'T' Brace Increase (From Above) = 30% = 1.30
 (1) 2x4 'L' Brace Length = 8' 7"
 Maximum 'T' Reinforced Gable Vertical Length
 1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:
 10d Common (0.148" x 3.1" min) Nails at 4' o.c. plus
 (4) nails in the top and bottom chords.

Toenailed Nails:
 10d Common (0.148" x 3.1" min) Toenails at 4' o.c. plus
 (4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

- ASCE 7-05 Gable Detail Drawings
 A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,
 A13030051014, A12030051014, A11030051014, A10030051014, A14030051014
 ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
 A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118,
 A18015ENC100118, A20015ENC100118, A20015ENDI00118, A20015PEDI00118,
 A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118,
 A18030ENC100118, A20030ENC100118, A20030ENDI00118, A20030PEDI00118,
 S11515ENC100118, S12015ENC100118, S14015ENC100118, S20015ENDI00118,
 S18015ENC100118, S20015ENC100118, S14030ENC100118, S16030ENC100118,
 S18030ENC100118, S20030ENC100118, S20030ENDI00118, S20030PEDI00118

See appropriate Alpine gable detail for maximum unreinforced vertical length.

REF	LET-IN VERT
DATE	01/02/2018
DRWG	GBLLETIN0118

MAX. TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX. SPACING	24.0"

No 70773
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 FERNANDO VINA
 LICENSE # 70773
 COA# 0 278
 Florida-Certificate of Product Approval

IMPORTANT! READ AND FOLLOW ALL NOTES ON THIS DRAWING THE INSTALLERS.
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the manufacturer's instructions for proper handling, storage, and installation. Do not use practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 1604-2 for standard plate positions.
 Alpine, a division of ITV Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, or bracing. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
 For more information see this job's general notes page and these web sites:
 ALPINE: www.alpineits.com TPI: www.tpinet.org BCSI: www.bcsicomponents.com ICO: www.icosafe.org

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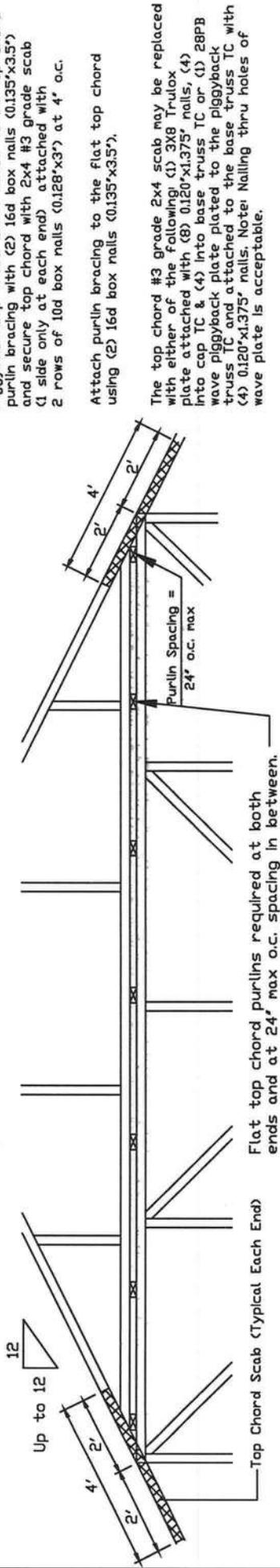
Piggyback Detail - ASCE 7-16: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg, located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0, Dr 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-16, Enclosed Bldg, located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends. Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

*** Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Detail A : Purlin Spacing = 24" o.c. or less



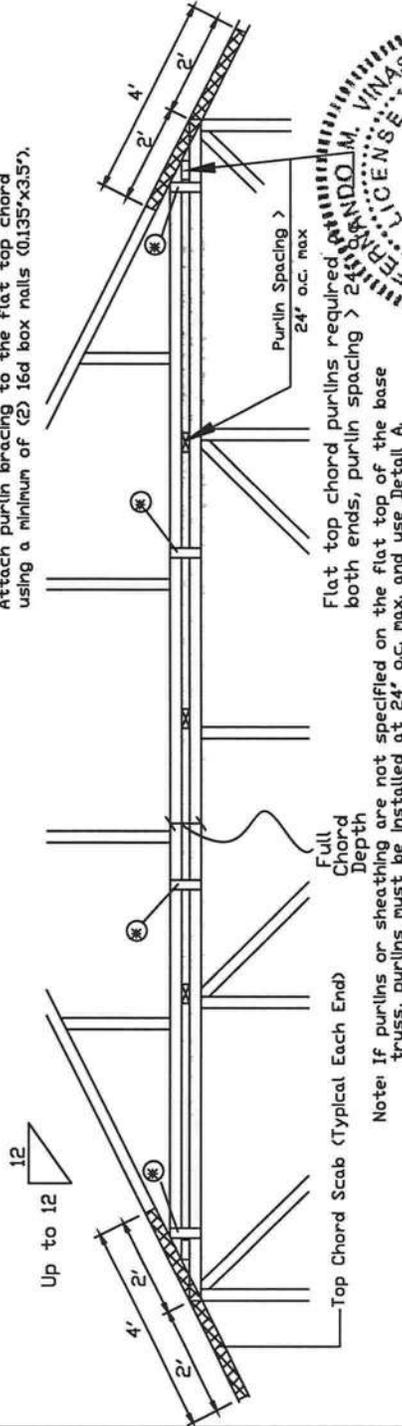
Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 2x4 #3 grade piggyback plate attached to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

Detail B : Purlin Spacing > 24" o.c.

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c. Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").



Note: If purlins or sheathing are not specified on the flat top of the base truss, purlins must be installed at 24' o.c. max. and use Detail A.

*** In addition, provide connection with one of the following methods:

Trulox

Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

APA Rated Gusset

8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

2x4 Vertical Scabs

2x4 SPF #2, Full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.

2x4 Wave Piggyback Plate

One 2x4 wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

IMPORTANT! READ AND FOLLOW ALL NOTES ON THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI Building Component Safety Information, by TPI and SCSA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached BCSI ceiling. Trusses shall be braced for permanent lateral restraint of ribs and top chord. Refer to drawings 160A-2 for standard plate positions.
Refer to drawings 160A-2 for standard plate positions.
Alpha, a division of ITV Building Components Group, Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.
A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability of this drawing for any structure is the responsibility of the design engineer per ANSI/TPI 1 Sec.2.
For more information, see this job's general notes page and these web sites:
ALPINE: www.alpineinc.com, TPI: www.tpi.org, SCSA: www.scsa.com
www.alpineinc.com

No 70773
STATE OF FLORIDA
PROFESSIONAL ENGINEER
FERNANDO M. VINA
LICENSE
09/10/2022
COA#0 278
Florida Certificate of Product Approval #FL1999

REF	PIGGYBACK
DATE	01/02/2018
DRWG	PBI60160118
SPACING	24.0"



155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Piggyback Detail - ASCE 7-16: 180 mph, 30' Mean Hgt, Partially Enclosed, Exp. C, Kzt=1.00

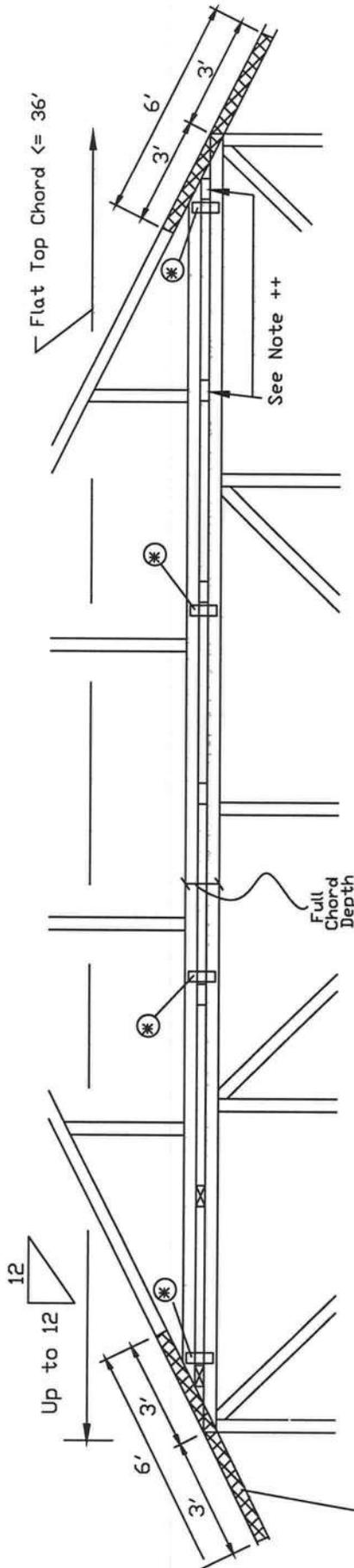
180 mph Wind, 3000 ft Mean Hgt, ASCE 7-16, Part. Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Dr 160 mph wind, 3000 ft Mean Hgt, ASCE 7-16, Part. Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends. Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

++ Flat top chord purlins required at both ends and at a maximum of 24' intervals unless otherwise noted on base truss design drawing. Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").



Top Chord Scab (Typical Each End)

■ In addition, provide connection with one of the following methods:

<p>Trulox Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.</p>	<p>28PB Wave Piggyback Plate Use 28PB wave piggyback plate to each face @ 8' o.c. Attach to top supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.</p>
<p>APA Rated Gusset 8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.</p>	<p>2x4 Vertical Scabs 2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.</p>

155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com TPI: www.tpihistorical.com ICC: www.icccsa.org

IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING BEFORE BEGINNING FABRICATING, SHIPPING, INSTALLING AND BRACING.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Components Systems Institute) Component Safety Practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless otherwise noted, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 16042 for standard plate positions.

Alpha, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this design or the following notes unless the truss is fabricated in accordance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

COA#0 278
Florida Certificate of Professional Engineer
SPACING: 1999 24.0"

REF: PIGGYBACK
DATE: 01/02/2018
DRWG: PB180160118

Cracked or Broken Member Repair Detail

Load Duration = 0%
Member forces may be increased for Duration of Load

This drawing specifies repairs for a truss with broken chord or web member.

This design is valid only for single ply trusses with 2x4 or 2x6 broken members. No more than one break per chord panel and no more than two breaks per truss are allowed. Contact the truss manufacturer for any repairs that do not comply with this detail.

(B) = Damaged area, 12" max length of damaged section
(L) = Minimum nailing distance on each side of damaged area (B)
(S) = Two 2x4 or two 2x6 side members, same size, grade, and species as damaged member. Apply one scab per face. Minimum side member length(s) = (2xL) + (B)

Scab member length (S) must be within the broken panel.

Nail into 2x4 members using two (2) rows at 4" o.c., rows staggered.

Nail into 2x6 members using three (3) rows at 4" o.c., rows staggered.

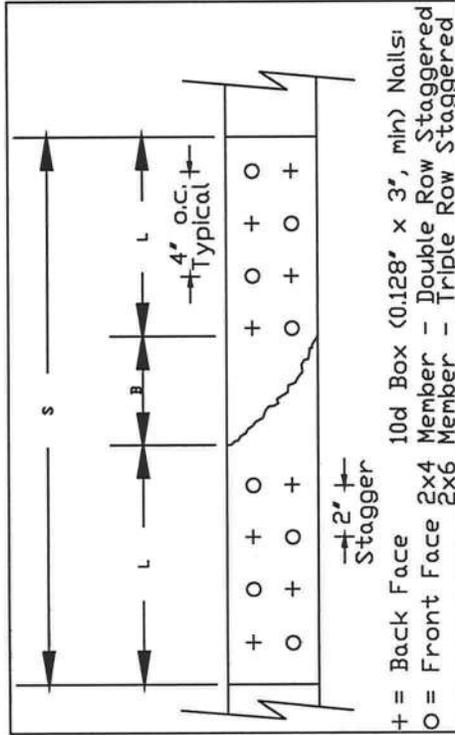
Nail using 10d box or gun nails (0.128"x3", min) into each side member.

The maximum permitted lumber grade for use with this detail is limited to Visual grade #1 and MSR grade 1650f.

This repair detail may be used for broken connector plate at mid-panel splices.

This repair detail may not be used for damaged chord or web sections occurring within the connector plate area.

Broken chord may not support any tie-in loads.

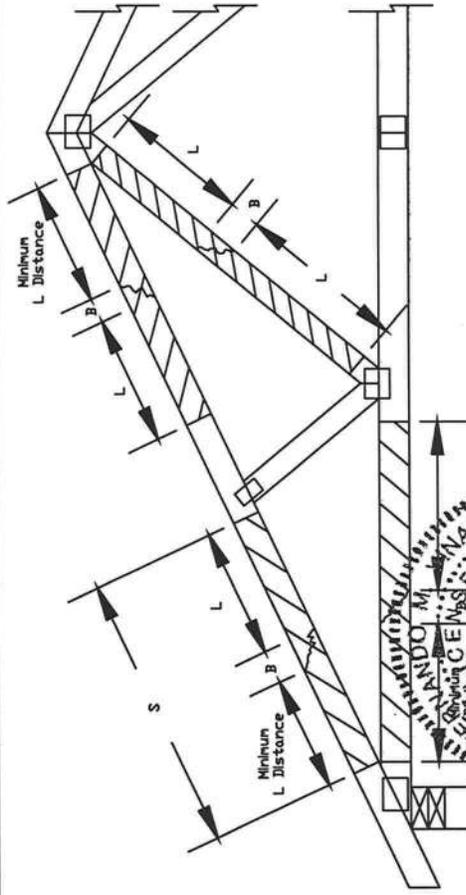


Nail Spacing Detail

IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS DRAWING INCLUDING THE INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI Guiding Component Safety Information, by TPI and SBCA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI sections 23, 29 or 310, as applicable. Apply plates to each face of truss and post per 1604-2. Refer to detail for fastener details, unless noted otherwise.
Alpine, a division of ITW Building Components Group, Inc. shall not be responsible for any deviation from this design. It is the responsibility of the contractor to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation, bracing of trusses.
A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec 2.
For more information see this job's general notes page and these web sites:
ALPINE: www.alphetr.com, TPI: www.tpi.org, SBCA: www.sbcacomponents.com, ICD: www.icdusa.com

ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

Member	Size	L	Maximum Member Axial Force			
			SPF-C	HF	DF-L	SYP
Web Only	2x4	12'	620#	635#	730#	800#
Web Only	2x4	18'	975#	1055#	1295#	1415#
Web or Chord	2x4	24'	975#	1055#	1495#	1745#
Web or Chord	2x6		1465#	1585#	2245#	2620#
Web or Chord	2x4	30'	1910#	1960#	2315#	2555#
Web or Chord	2x6		2230#	2365#	3125#	3575#
Web or Chord	2x4	36'	2470#	2530#	2930#	3210#
Web or Chord	2x6		3535#	3635#	4295#	4745#
Web or Chord	2x4	42'	2975#	3045#	3505#	3835#
Web or Chord	2x6		4395#	4500#	5225#	5725#
Web or Chord	2x4	48'	3460#	3540#	4070#	4445#
Web or Chord	2x6		5165#	5280#	6095#	6660#



No 70773
STATE OF FLORIDA
PROFESSIONAL ENGINEER
09/10/2022

REF	MEMBER REPAIR
DATE	10/01/14
DRWG	REPCHRD1014

SPACING	24.0"	MAX
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Florida Certificate of Product Approval #PL1999

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2020 Florida Building Code, Energy Conservation via the Residential Simulated Performance Alternative shall include:

- This checklist
- Form R405-2020 report
- Input summary checklist that can be used for field verification (usually four pages/may be greater)
- Energy Performance Level (EPL) Display Card (one page)
- HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
- Mandatory Requirements (five pages)

Required prior to CO:

- Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
- A completed 2020 Envelope Leakage Test Report (usually one page); exception in R402.4 allows dwelling units of R-2 Occupancies and multiple attached single family dwellings to comply with Section C402.5
- If Form R405 duct leakage type indicates anything other than "default leakage", then a completed 2020 Duct Leakage Test Report - Performance Method (usually one page)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 220936 Lounden Street: 152 NE Diana Ter City, State, Zip: Lake City, FL, 32055 Owner: Allen Lounden Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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Glass/Floor Area: 0.122 Total Proposed Modified Loads: 31.91 **PASS**
 Total Baseline Loads: 32.29

<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p>PREPARED BY: <u>Evan Beamsley</u> DATE: <u>2022-08-06</u></p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT: _____ DATE: _____</p>	<p>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.</p> <p style="text-align: center;">  Reviewed for Compliance Examined BUILDING OFFICIAL: _____ DATE: _____ File Copy </p>
--	--

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	220936 Lounden	Bedrooms:	2	Address Type:	Street Address								
Building Type:	User	Conditioned Area:	1092	Lot #									
Owner Name:	Allen Lounden	Total Stories:	1	Block/Subdivision:									
# of Units:	1	Worst Case:	No	PlatBook:									
Builder Name:		Rotate Angle:	270	Street:	152 NE Diana Ter								
Permit Office:		Cross Ventilation:		County:	Columbia								
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City , FL , 32055								
Family Type:	Detached												
New/Existing:	New (From Plans)												
Comment:													
CLIMATE													
✓	Design Location	TMY Site	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range				
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium				
BLOCKS													
Number	Name	Area	Volume										
1	Block1	1092	8736										
SPACES													
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated			
1	Main	1092	8736	Yes	4	2	1	Yes	Yes	Yes			
FLOORS													
✓	#	Floor Type	Space	Perimeter	R-Value	Area	Tile	Wood	Carpet				
_____	1	Slab-On-Grade Edge Insulatio	Main	138 ft	0	1092 ft²	----	0.3	0.3	0.4			
ROOF													
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	1183 ft²	0 ft²	Dark	N	0.92	No	0.9	No	22	22.62
ATTIC													
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC						
_____	1	Full attic	Unvented	0	1092 ft²	N	N						
CEILING													
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type					
_____	1	Under Attic (Unvented)	Main	0	Blown	1092 ft²	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Omt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N=>W	Exterior	Frame - Wood	Main	13	40	6	8	0	324.0 ft²		0.23	0.5	0
2	E=>N	Exterior	Frame - Wood	Main	13	25	4	8		202.7 ft²		0.23	0.5	0
3	S=>E	Exterior	Frame - Wood	Main	13	21	3	8		170.0 ft²		0.23	0.5	0
4	E=>N	Exterior	Frame - Wood	Main	13	1	6	8		12.0 ft²		0.23	0.5	0
5	S=>E	Exterior	Frame - Wood	Main	13	6	3	8	0	50.0 ft²		0.23	0.5	0
6	E=>N	Exterior	Frame - Wood	Main	13	1	6	8	0	12.0 ft²		0.23	0.5	0
7	S=>E	Exterior	Frame - Wood	Main	13	13		8		104.0 ft²		0.23	0.5	0
8	W=>S	Exterior	Frame - Wood	Main	13	28	4	8		226.7 ft²		0.23	0.5	0

DOORS

✓ #	Omt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	N=>W	Insulated	Main	None	.4	2	8	6	8	17.8 ft²
2	S=>E	Insulated	Main	None	.4	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered orientation (=>) changed to As Built (rotated 270 degrees).

✓ #	Wall Omt	ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	N=>W	1	Metal	Low-E Double	Yes	0.35	0.25	N	30.0 ft²	1 ft 6 in	0 ft 6 in	None	None
2	N=>W	1	Metal	Low-E Double	Yes	0.35	0.25	N	9.0 ft²	1 ft 6 in	0 ft 6 in	None	None
3	N=>W	1	Metal	Low-E Double	Yes	0.35	0.25	N	25.0 ft²	1 ft 6 in	0 ft 6 in	None	None
4	E=>N	2	Metal	Low-E Double	Yes	0.35	0.25	N	15.0 ft²	1 ft 6 in	0 ft 6 in	None	None
5	S=>E	3	Metal	Low-E Double	Yes	0.35	0.25	N	30.0 ft²	7 ft 0 in	0 ft 6 in	None	None
6	S=>E	5	Metal	Low-E Double	Yes	0.35	0.25	N	9.0 ft²	1 ft 6 in	0 ft 6 in	None	None
7	S=>E	7	Metal	Low-E Double	Yes	0.35	0.25	N	15.0 ft²	1 ft 6 in	4 ft 0 in	None	None

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000356	1019.2	55.92	104.98	.1372	7

HEATING SYSTEM

✓ #	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump/	None	Singl	HSPF:9	18 kBtu/hr	1	sys#1

COOLING SYSTEM

✓ #	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
1	Central Unit/	None	Singl	SEER: 15	18 kBtu/hr	540 cfm	0.75	1	sys#1

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

<input checked="" type="checkbox"/>	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
	1	Electric	None	Main	0.95	55 gal	50 gal	120 deg	None

SOLAR HOT WATER SYSTEM

<input checked="" type="checkbox"/>	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
	None	None			ft²		

DUCTS

<input checked="" type="checkbox"/>	#	Location	Supply R-Value	Supply Area	Return Location	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
	1	Attic	6	218.4 ft	Main	10 ft²	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

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

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.3	Main

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 99

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

152 NE Diana Ter, Lake City, FL, 32055

1. New construction or existing	New (From Plans)		10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached		a. Frame - Wood, Exterior	R=13.0	1101.30 ft ²
3. Number of units, if multiple family	1		b. N/A	R=	ft ²
4. Number of Bedrooms	2		c. N/A	R=	ft ²
5. Is this a worst case?	No		d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	1092		11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	Area	a. Roof Deck (Unvented)	R=22.0	1092.00 ft ²
a. U-Factor:	Dbl, U=0.35	133.00 ft ²	b. N/A	R=	ft ²
SHGC:	SHGC=0.25		c. N/A	R=	ft ²
b. U-Factor:	N/A	ft ²	12. Ducts, location & insulation level		R ft ²
SHGC:			a. Sup: Attic, Ret: Main, AH: Main	6	218.4
c. U-Factor:	N/A	ft ²	13. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	18.0	SEER:15.00
d. U-Factor:	N/A	ft ²	14. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	18.0	HSPF:9.00
Area Weighted Average Overhang Depth:		2.741 ft.	15. Hot water systems		Cap: 55 gallons
Area Weighted Average SHGC:		0.250	a. Electric		EF: 0.95
8. Skylights	Description	Area	b. Conservation features		None
a. U-Factor(AVG):	N/A	ft ²	None		
SHGC(AVG):	N/A		Credits (Performance method)		Pstat
9. Floor Types	Insulation	Area			
a. Slab-On-Grade Edge Insulation	R=0.0	1092.00 ft ²			
b. N/A	R=	ft ²			
c. N/A	R=	ft ²			

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: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Florida Building Code, Energy Conservation, 7th Edition (2020)
Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS: 152 NE Diana Ter
Lake City, FL, 32055

Permit Number:

MANDATORY REQUIREMENTS - See individual code sections for full details.



SECTION R401 GENERAL



R401.3 Energy Performance Level (EPL) display card (Mandatory). The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.

SECTION R402 BUILDING THERMAL ENVELOPE



R402.4 Air leakage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.

Exception: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.



R402.4.1 Building thermal envelope. The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.



R402.4.1.1 Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.



R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

Exception: Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.



R402.4.2 Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.



R402.4.3 Fenestration air leakage. Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued)

- R402.4.4 Rooms containing fuel-burning appliances.** In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

Exceptions:

1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.

- R402.4.5 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

SECTION R403 SYSTEMS

R403.1 Controls.

- R403.1.1 Thermostat provision (Mandatory).** At least one thermostat shall be provided for each separate heating and cooling system.

- R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.

- R403.3.2 Sealing (Mandatory)** All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.

- R403.3.2.1 Sealed air handler.** Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.

- R403.3.3 Duct testing (Mandatory).** Ducts shall be pressure tested to determine air leakage by one of the following methods:

1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
2. Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.

Exceptions:

1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
2. *Duct testing is not mandatory for buildings complying by Section 405 of this code. Duct leakage testing is required for Section R405 compliance where credit is taken for leakage, and a duct air leakage Q_n to the outside of less than 0.080 (where Q_n = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the compliance report for the proposed design.*

A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.

- R403.3.5 Building cavities (Mandatory).** Building framing cavities shall not be used as ducts or plenums.

- R403.4 Mechanical system piping insulation (Mandatory).** Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.

- R403.4.1 Protection of piping insulation.** Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.

- R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory).** If heated water circulation systems are installed, they shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.

- R403.5.1.1 Circulation systems.** Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.

- R403.5.1.2 Heat trace systems.** Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.

MANDATORY REQUIREMENTS - (Continued)

- R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 1/2 inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
- R403.5.6 Water heater efficiencies (Mandatory).**
- R403.5.6.1.1 Automatic controls.** Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
- R403.5.6.1.2 Shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
- R403.5.6.2 Water-heating equipment.** Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
- R403.5.6.2.1 Solar water-heating systems.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
 2. Be installed at an orientation within 45 degrees of true south.
- R403.6 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
- R403.6.1 Whole-house mechanical ventilation system fan efficacy.** When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.
- Exception:** Where an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor.
- R403.6.2 Ventilation air.** Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
 2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
 3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
- R403.7 Heating and cooling equipment.**
- R403.7.1 Equipment sizing (Mandatory).** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

**TABLE R403.6.1
WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY**

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ^a (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVI Standard 916

MANDATORY REQUIREMENTS - (Continued)

- R403.7.1.1 Cooling equipment capacity.** Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section R403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.
- The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.

Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

Exceptions:

1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
2. When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.

R403.7.1.2 Heating equipment capacity.

- R403.7.1.2.1 Heat pumps.** Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.
- R403.7.1.2.2 Electric resistance furnaces.** Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.
- R403.7.1.2.3 Fossil fuel heating equipment.** The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.
- R403.7.1.3 Extra capacity required for special occasions.** Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
 2. A variable capacity system sized for optimum performance during base load periods is utilized.
- R403.8 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Florida Building Code, Energy Conservation—Commercial Provisions in lieu of Section R403.
- R403.9 Snow melt and ice system controls (Mandatory)** Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
- R403.10 Pools and permanent spa energy consumption (Mandatory).** The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.
- R403.10.1 Heaters.** The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.
- R403.10.2 Time switches.** Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.
- Exceptions:**
1. Where public health standards require 24-hour pump operation.
 2. Pumps that operate solar- and waste-heat-recovery pool heating systems.
 3. Where pumps are powered exclusively from on-site renewable generation.

- R403.10.3 Covers.** Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.
Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.
- R403.10.4 Gas- and oil-fired pool and spa heaters.** All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.
- R403.10.5 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
- R403.11 Portable spas (Mandatory).** The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
- R403.13 Dehumidifiers (Mandatory)** If installed, a dehumidifier shall conform to the following requirements:
1. The minimum rated efficiency of the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house is less than 75 pints/day and greater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to 75 pints/day.
 2. The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air.
 3. Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2.
 4. Condensate disposal shall be in accordance with Section M1411.3.1 of the Florida Building Code, Residential.
- R403.13.1 Ducted dehumidifiers.** Ducted dehumidifiers shall, in addition to conforming to the requirements of Section R403.13, conform to the following requirements:
1. If a ducted dehumidifier is configured with return and supply ducts both connected into the supply side of the cooling system, a backdraft damper shall be installed in the supply air duct between the dehumidifier inlet and outlet duct.
 2. If a ducted dehumidifier is configured with only its supply duct connected into the supply side of the central heating and cooling system, a backdraft damper shall be installed in the dehumidifier supply duct between the dehumidifier and central supply duct.
 3. A ducted dehumidifier shall not be ducted to or from a central ducted cooling system on the return duct side upstream from the central cooling evaporator coil.
 4. Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6.

SECTION R404

ELECTRICAL POWER AND LIGHTING SYSTEMS

- R404.1 Lighting equipment (Mandatory).** Not less than 90 percent of the lamps in permanently installed luminaires shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.

R404.1.1 Lighting equipment (Mandatory). Fuel gas lighting systems shall not have continuously burning pilot lights.

2020 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1
 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA^a

Project Name: 220936 Lounden Street: 152 NE Diana Ter City, State, Zip: Lake City, FL, 32055 Owner: Allen Lounden Design Location: FL, Gainesville		Builder Name: Permit Office: Permit Number: Jurisdiction:		CHECK
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA		
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.		
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.		
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.		
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.			
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.		
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.		
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.		
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.			
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.		
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.			
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.		
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.		
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.		
Electrical/phone box or exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.			
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or			
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.			

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:	Permit #:
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Job Information

Builder:	Community:	Lot:	NA
Address: 152 NE Diana Ter			
City: Lake City	State: FL	Zip: 32055	

Air Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method

- PRESCRIPTIVE METHOD**-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.
- PERFORMANCE or ERI METHOD**-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2020 (Performance) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50.
ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI): 7.000

$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{8736}{\text{ACH}(50)} = \text{ACH}(50)$ <p style="text-align: center; font-size: 2em; font-weight: bold;">PASS</p> <p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p>	<p><u>Method for calculating building volume:</u></p> <p><input type="radio"/> Retrieved from architectural plans</p> <p><input checked="" type="radio"/> Code software calculated</p> <p><input type="radio"/> Field measured and calculated</p>
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R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes*, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the *code official*. Testing shall be performed at any time after creation of all penetrations of the *building thermal envelope*.

- During testing:
1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
 2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
 3. Interior doors, if installed at the time of the test, shall be open.
 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
 5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
 6. Supply and return registers, if installed at the time of the test, shall be fully open.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2020 7th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Residential System Sizing Calculation

Summary

Allen Lounden
152 NE Diana Ter
Lake City, FL 32055

Project Title:
220936 Lounden

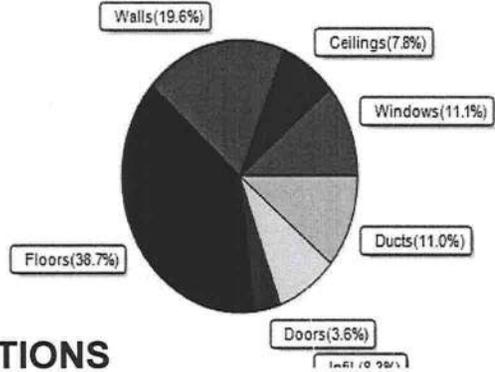
2022-08-06

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature(TMY3 99%)	30 F	Summer design temperature(TMY3 99%)	94 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	40 F	Summer temperature difference	19 F
Total heating load calculation	16850 Btuh	Total cooling load calculation	15330 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	106.8 18000	Sensible (SHR = 0.75)	102.7 13500
Heat Pump + Auxiliary(0.0kW)	106.8 18000	Latent	206.2 4500
		Total (Electric Heat Pump)	117.4 18000

WINTER CALCULATIONS

Winter Heating Load (for 1092 sqft)

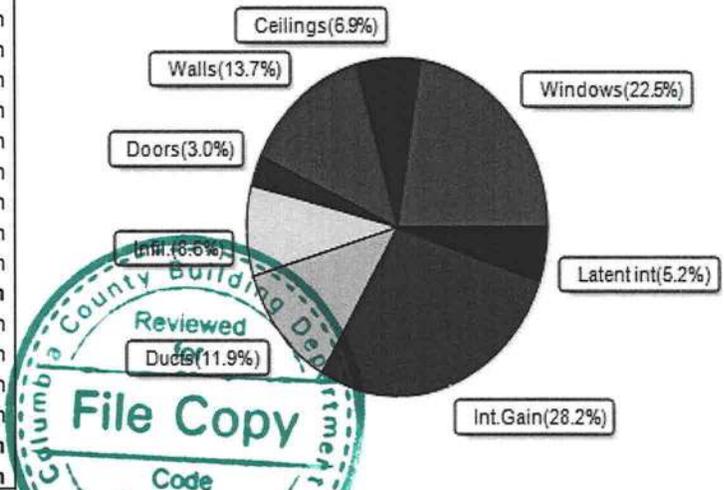
Load component		Load	
Window total	133 sqft	1862	Btuh
Wall total	931 sqft	3304	Btuh
Door total	38 sqft	604	Btuh
Ceiling total	1092 sqft	1316	Btuh
Floor total	1092 sqft	6514	Btuh
Infiltration	32 cfm	1399	Btuh
Duct loss		1851	Btuh
Subtotal		16850	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		16850	Btuh



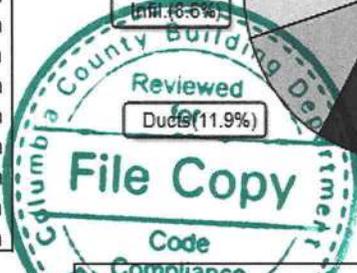
SUMMER CALCULATIONS

Summer Cooling Load (for 1092 sqft)

Load component		Load	
Window total	133 sqft	3448	Btuh
Wall total	931 sqft	2106	Btuh
Door total	38 sqft	453	Btuh
Ceiling total	1092 sqft	1053	Btuh
Floor total		0	Btuh
Infiltration	24 cfm	498	Btuh
Internal gain		4320	Btuh
Duct gain		1268	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Blower Load		0	Btuh
Total sensible gain		13148	Btuh
Latent gain(ducts)		555	Btuh
Latent gain(infiltration)		827	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		800	Btuh
Total latent gain		2182	Btuh
TOTAL HEAT GAIN		15330	Btuh



8th Edition



EnergyGauge® System Sizing
PREPARED BY: Evan Beamsley
DATE: 2022-08-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Allen Lounden
152 NE Diana Ter
Lake City, FL 32055

Project Title:
220936 Lounden
Building Type: User

2022-08-06

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)

Component Loads for Whole House								
Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM= Load	
1	2, NFRC 0.25	Metal	0.35	N	30.0		14.0 420 Btuh	
2	2, NFRC 0.25	Metal	0.35	N	9.0		14.0 126 Btuh	
3	2, NFRC 0.25	Metal	0.35	N	25.0		14.0 350 Btuh	
4	2, NFRC 0.25	Metal	0.35	E	15.0		14.0 210 Btuh	
5	2, NFRC 0.25	Metal	0.35	S	30.0		14.0 420 Btuh	
6	2, NFRC 0.25	Metal	0.35	S	9.0		14.0 126 Btuh	
7	2, NFRC 0.25	Metal	0.35	S	15.0		14.0 210 Btuh	
	Window Total					133.0(sqft)		1862 Btuh
Walls	Type	Omt.	Ueff.	R-Value (Cav/Sh)	Area X		HTM= Load	
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	242		3.55 860 Btuh	
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	188		3.55 666 Btuh	
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	120		3.55 426 Btuh	
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	12		3.55 43 Btuh	
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	41		3.55 146 Btuh	
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	12		3.55 43 Btuh	
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	89		3.55 316 Btuh	
8	Frame - Wood	- Ext	(0.089)	13.0/0.0	227		3.55 805 Btuh	
	Wall Total					931(sqft)		3304 Btuh
Doors	Type	Storm	Ueff.		Area X		HTM= Load	
1	Insulated - Exterior, n		(0.400)		18		16.0 284 Btuh	
2	Insulated - Exterior, n		(0.400)		20		16.0 320 Btuh	
	Door Total					38(sqft)		604Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area X		HTM= Load	
1	Unvent Attic/D/Shing		(0.241)	0.0/22.0	1092		1.2 1316 Btuh	
	Ceiling Total					1092(sqft)		1316Btuh
Floors	Type		Ueff.	R-Value	Size X		HTM= Load	
1	Slab On Grade		(1.180)	0.0	138.0 ft(perim.)		47.2 6514 Btuh	
	Floor Total					1092 sqft		6514 Btuh
Envelope Subtotal:							13600 Btuh	
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=	Load	
	Natural		0.22	8736	1.00	32.0	1399 Btuh	
Duct load	Average sealed, R6.0, Supply(Att), Return(Con)					(DLM of 0.123)	1851 Btuh	
All Zones	Sensible Subtotal All Zones						16850 Btuh	

Manual J Winter Calculations

Residential Load - Component Details (continued)

Allen Lounden
152 NE Diana Ter
Lake City, FL 32055

Project Title:
220936 Lounden
Building Type: User

2022-08-06

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	16850 Btuh
	Ventilation Sensible Heat Loss	0 Btuh
	Total Heat Loss	16850 Btuh

EQUIPMENT

1. Electric Heat Pump	#	18000 Btuh
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Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)
U - (Window U-Factor)
HTM - (ManualJ Heat Transfer Multiplier)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Allen Lounden
152 NE Diana Ter
Lake City, FL 32055

Project Title:
220936 Lounden

2022-08-06

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%)

Humidity difference: 51gr.

Component Loads for Whole House

Window	Type*					Overhang		Window Area(sqft)			HTM		Load		
	Panes	SHGC	U	InSh	IS Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2 NFRC	0.25, 0.35	No	No	N	1.5ft	0.5ft	30.0	4.5	25.5	12	31	838	Btuh	
2	2 NFRC	0.25, 0.35	No	No	N	1.5ft	0.5ft	9.0	2.2	6.8	12	31	235	Btuh	
3	2 NFRC	0.25, 0.35	No	No	N	1.5ft	0.5ft	25.0	3.7	21.3	12	31	699	Btuh	
4	2 NFRC	0.25, 0.35	No	No	E	1.5ft	0.5ft	15.0	0.0	15.0	12	12	179	Btuh	
5	2 NFRC	0.25, 0.35	No	No	S	7.0ft	0.5ft	30.0	30.0	0.0	12	31	357	Btuh	
6	2 NFRC	0.25, 0.35	No	No	S	1.5ft	0.5ft	9.0	2.2	6.8	12	31	235	Btuh	
7	2 NFRC	0.25, 0.35	No	No	S	1.5ft	4.0ft	15.0	0.0	15.0	12	31	461	Btuh	
	Excursion													445	Btuh
	Window Total								133 (sqft)					3448 Btuh	
Walls	Type	U-Value	R-Value	Area(sqft)		HTM		Load							
			Cav/Sheath												
1	Frame - Wood - Ext	0.09	13.0/0.0	242.2		2.3		548 Btuh							
2	Frame - Wood - Ext	0.09	13.0/0.0	187.7		2.3		425 Btuh							
3	Frame - Wood - Ext	0.09	13.0/0.0	120.0		2.3		272 Btuh							
4	Frame - Wood - Ext	0.09	13.0/0.0	12.0		2.3		27 Btuh							
5	Frame - Wood - Ext	0.09	13.0/0.0	41.0		2.3		93 Btuh							
6	Frame - Wood - Ext	0.09	13.0/0.0	12.0		2.3		27 Btuh							
7	Frame - Wood - Ext	0.09	13.0/0.0	89.0		2.3		201 Btuh							
8	Frame - Wood - Ext	0.09	13.0/0.0	226.7		2.3		513 Btuh							
	Wall Total			931 (sqft)				2106 Btuh							
Doors	Type	Area (sqft)	HTM	Load											
1	Insulated - Exterior	17.8	12.0	213 Btuh											
2	Insulated - Exterior	20.0	12.0	240 Btuh											
	Door Total			38 (sqft)		453 Btuh									
Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load									
1	Unvented Attic/DarkShingle	0.241	0.0/22.0	1092.0	0.96	1053 Btuh									
	Ceiling Total			1092 (sqft)		1053 Btuh									
Floors	Type	R-Value	Size	HTM	Load										
1	Slab On Grade	0.0	1092 (ft-perimeter)	0.0	0 Btuh										
	Floor Total			1092.0 (sqft)		0 Btuh									
Envelope Subtotal:										7061 Btuh					
Infiltration	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=	Load									
	Natural	0.16	8736	1	24.0	498 Btuh									
Internal gain	Occupants	Btuh/occupant	Appliance	Load											
	4	X 230	+ 3400	4320 Btuh											
Sensible Envelope Load:										11879 Btuh					
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Condi)				(DGM of 0.107)		1268 Btuh								
Sensible Load All Zones										13148 Btuh					

Manual J Summer Calculations

Residential Load - Component Details (continued)

Allen Lounden
152 NE Diana Ter
Lake City, FL 32055

Project Title:
220936 Lounden

Climate:FL_GAINESVILLE_REGIONAL_A

2022-08-06

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	11879 Btuh
	Sensible Duct Load	1268 Btuh
	Total Sensible Zone Loads	13148 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	13148 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	827 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	555 Btuh
	Latent occupant gain (4.0 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	2182 Btuh
	TOTAL GAIN	15330 Btuh

EQUIPMENT

1. Central Unit	#	18000 Btuh
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*Key: Window types (Panels - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)
(U - Window U-Factor)
(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
- For Blinds: Assume medium color, half closed
For Draperies: Assume medium weave, half closed
For Roller shades: Assume translucent, half closed
(IS - Insect screen: none(N), Full(F) or Half(½))
(Ornt - compass orientation)



Version 8