

# Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 567  
Florida Certificate of Product Approval # FL1999  
Page 1 of 1 Document ID:ISSZ215-Z0714145422

Truss Fabricator: W.B. Howland  
Job Identification: 3053-/William Foti Hanger /EDGELY CONSTRUCTION -- LAKE CITY, FL  
Truss Count: 3  
Model Code: Florida Building Code  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Version 7.20.  
Structural Engineer of Record:  
Address:  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

## Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Details: BRCLBSUB

| # | Ref         | Description | Drawing# | Date     |
|---|-------------|-------------|----------|----------|
| 1 | 99282-A1GE  | (2-PLY) 46' | 05348160 | 12/14/05 |
| 2 | 99283--A2   | 46' Common  | 05348158 | 12/14/05 |
| 3 | 99284--A3GE | 46' Gable   | 05348159 | 12/14/05 |



Seal Date: 12/14/2005

-Truss Design Engineer-  
James F. Collins Jr.  
Florida License Number: 52212  
1950 Marley Drive  
Haines City, FL 33844



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Truss Fabricator: W.B. Howland  
Job Identification: 3053-/William Foti Hanger /EDGEY CONSTRUCTION -- LAKE CITY, FL  
Truss Count: 1  
Model Code: Florida Building Code  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software,Version 7.20.  
Structural Engineer of Record:  
Address:  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

## Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Seal Date: 12/14/2005

-Truss Design Engineer-  
James F. Collins Jr.  
Florida License Number: 52212  
1950 Marley Drive  
Haines City, FL 33844

## Revised Trusses

| # | Ref        | Description | Drawing# | Date     |
|---|------------|-------------|----------|----------|
| 1 | 99282-A1GE | (2-PLY) 46' | 05348160 | 12/14/05 |



Top chord 2x4 SP SS :T2, T3 2x4 SP #2 Dense:

Bot chord 2x12 SP #2 N

Webs 2x4 SP #2 N

:Stack Chord SC1 2x4 SP SS::Stack Chord SC2 2x4 SP SS:

110 mph wind, 16.31 ft mean hgt, ASCE 7-02, CLOSED bldg. Located anywhere in roof, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notched area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notched area using 3x6.

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 7-8 4.

+ MEMBER TO BE Laterally Braced For Horizontal Wind Loads. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

## 2 COMPLETE TRUSSES REQUIRED

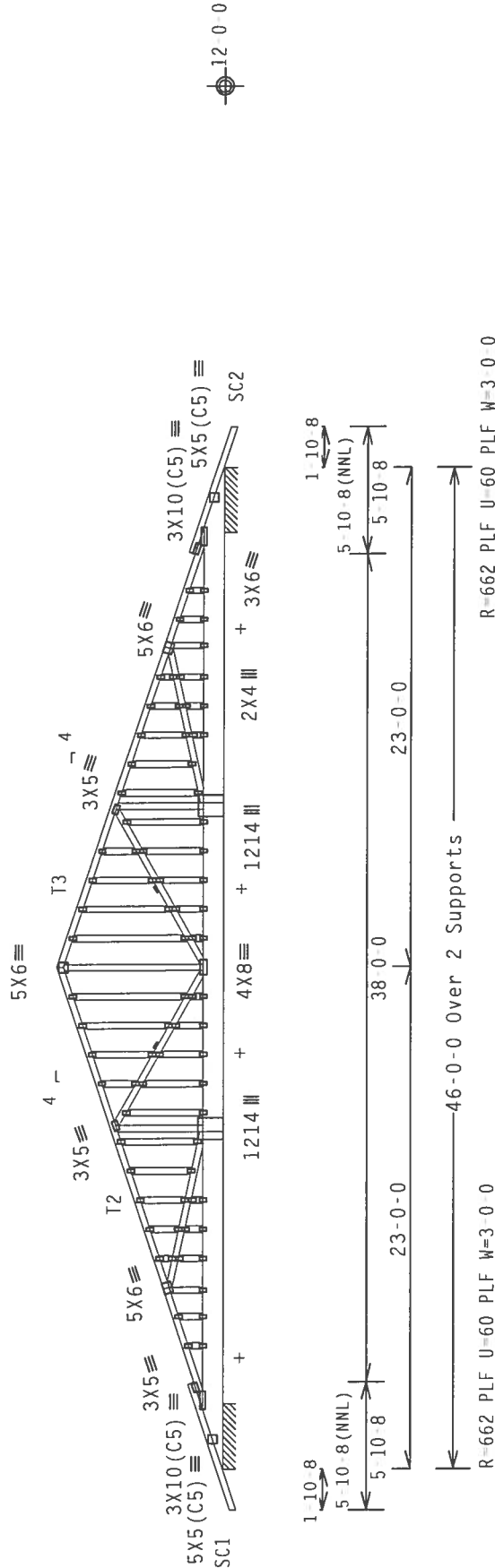
Gable end supports 8" max rake overhang.

See DWGS A11030EE0405 & GBLLETIN0405 for more requirements.

Deflection meets L/360 live and L/240 total load.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



Note: All Plates Are 2x4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R

Cq/RT=1.00(1.25)/10(0)

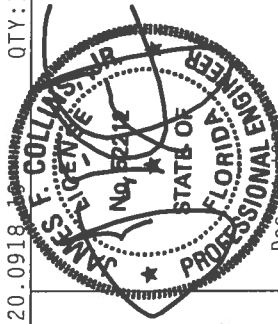
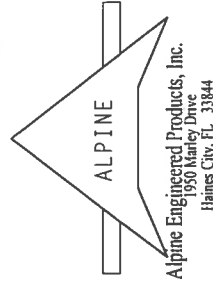
QTY:1

FL/-5/-/-R/-

Scale =.125"/Ft.

\*\*WARNING\*\* TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PRODUCTS, INC. 10000 DR. SUITE 200, MADISON, WI 53719, AND WCA WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE DR. MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. CONNECTION PLATES ARE MADE OF 2018/10GA (4-11/16) ASH A553 GRADE 40/60 (4, 6, 8, 10) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 100A 2. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF 1/1/2002 SEC-3. A SEAL ON THIS DRAWING SHALL INDICATE THE RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC/TPI 1 SEC. 2.



|          |          |        |             |          |
|----------|----------|--------|-------------|----------|
| TC LL    | 20.0 PSF | REF    | R215 -      | 99282    |
| TC DL    | 10.0 PSF | DATE   | 12/14/05    |          |
| BC DL    | 10.0 PSF | DRW    | HCUSR215    | 05348160 |
| BC LL    | 0.0 PSF  | HC-ENG | EC/WHK      |          |
| TOT.LD.  | 40.0 PSF | SEQN   | 98375       | REV      |
| DUR.FAC. | 1.25     | FROM   | CDM         |          |
| SPACING  | 24.0"    | JREF   | 1SSZ215_Z07 |          |

Top chord 2x4 SP SS :T2, T3 2x4 SP #2 Dense:  
Bot chord 2x4 SP #2 Dense :B2 2x4 SP #2 N:  
webs 2x4 SP #2 N

1110 mph wind, 15.85 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Calculated horizontal deflection is 0.14" due to live load and 0.14" due to dead load.

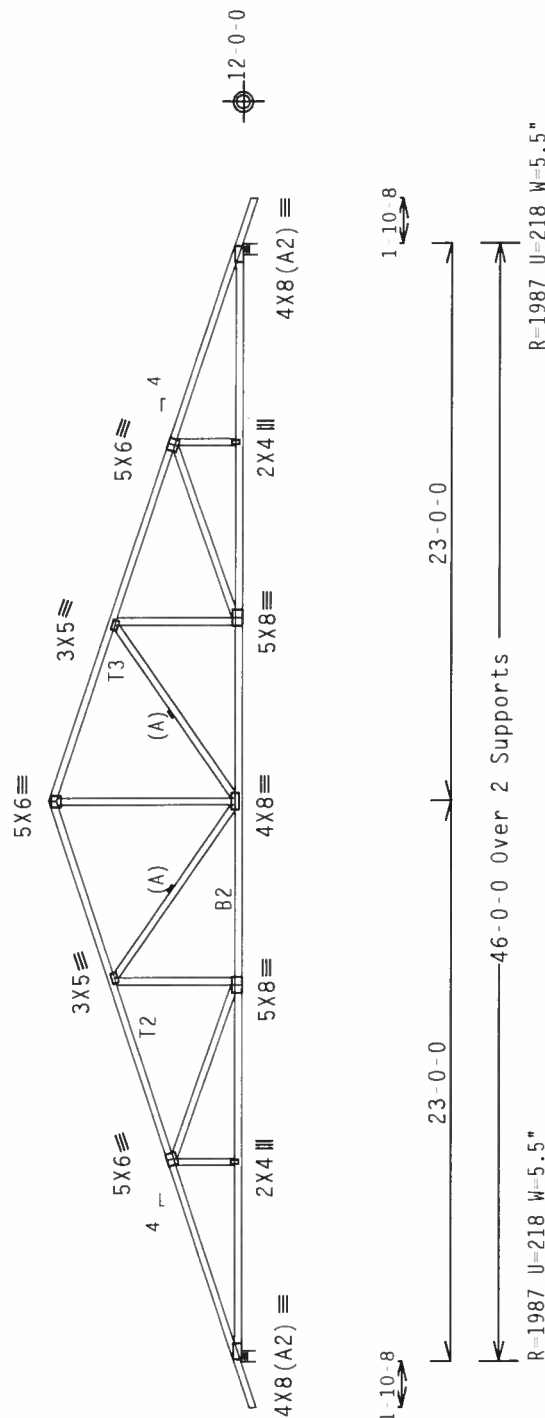
(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load.

**WARNING:** Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 7-11-15.



Design Crit: TPI-2002(STD)/FBC  
C<sub>g</sub>/RT=1.00(1.25)

**\*\*WARNING\*\*** THESESS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRACING. REFER TO BGS1-103 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPTI GROUP INSTITUTE, 583 MADISON, AVE 53119, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE CONNECTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED LEGGED CEILING.

**\*\*\*IMPORTANT\*\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGNER'S COMPLIANCE WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TPII. ALPINE TRUSSES SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA (48° N. & 118° W.). GALV. APPLY TO PLATES TO EACH FACE OF TRUSS AND TRUSS CONNECTIONS LOCATED ON THE SIDE OF THE TRUSS. GALV. APPLY TO INSIDE OF PLATES FOLLOWED BY (1). SHALL BE PER AISC 435 OF 1971-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SUCCEED FOR THE TRUSS COMPONENT DESIGNING. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/AP1 1 SEC. 2.

|          |              |      |        |            |         |                  |
|----------|--------------|------|--------|------------|---------|------------------|
| QTY:19   | FL/-/5/-/R/- | 20.0 | PSF    | REF R215-- | 99283   | Scale =.125"/Ft. |
| TC LL    | 20.0         | PSF  | DATE   | 12/14/05   |         |                  |
| TC DL    | 10.0         | PSF  | DRW    | HGUSR215   | 0534815 |                  |
| BC DL    | 10.0         | PSF  | HC-ENG | EC/WHK     |         |                  |
| BC LL    | 0.0          | PSF  | SEQN-  | 98359      |         |                  |
| TOT.LD.  | 40.0         | PSF  | FROM   | CDM        |         |                  |
| DUR.FAC. | 1.25         |      |        |            |         |                  |
| SPACING  | 24.0"        |      |        |            |         |                  |

Top chord 2x4 SP #2 N  
Bot chord 2x4 SP #2 N  
Webs 2x4 SP #2 N

110 mph wind, 15.99 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

See DWGS A11030EE0405 & GBLLEIIN0405 for more requirements.

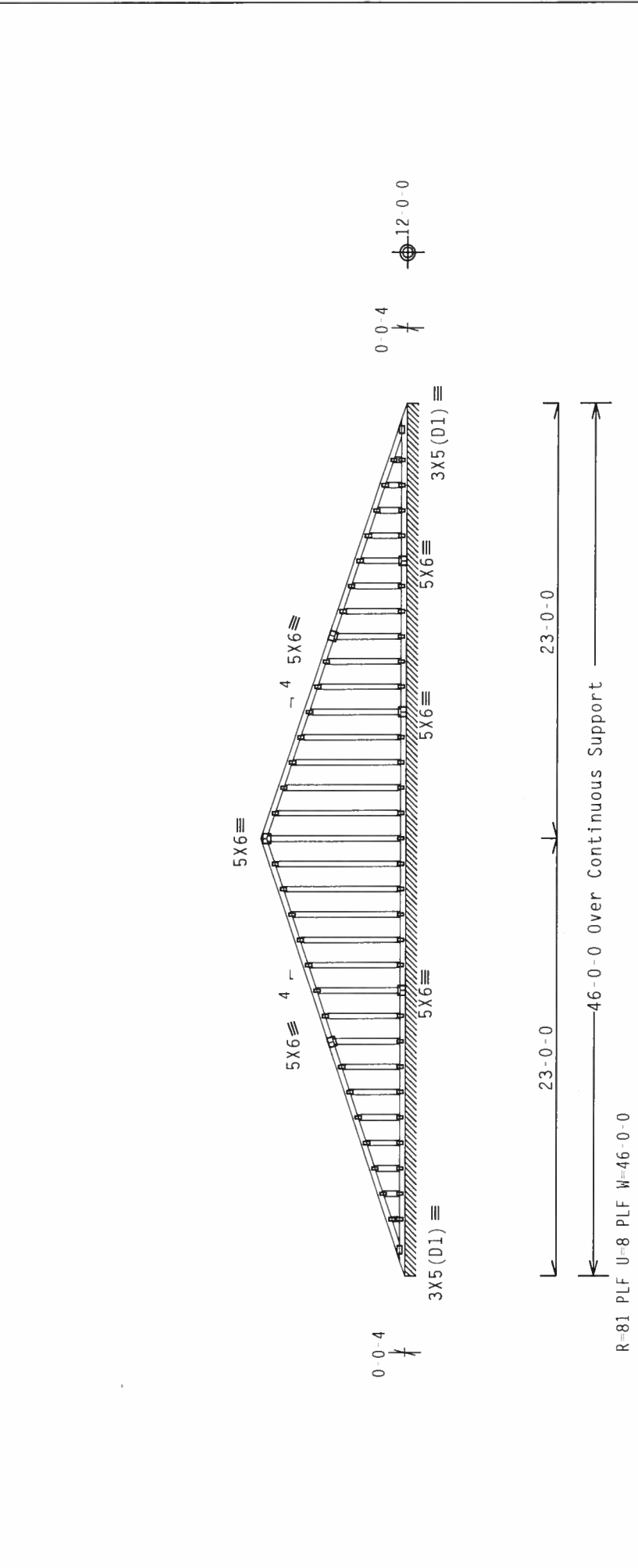
Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 7-8-4.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

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Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave/R

Cq/RT=1.00(1.25)/10(0) 7.20.0918 10 QTY:1 FL/-5/-/R/- Scale = .125"/ft.

|        |          |          |
|--------|----------|----------|
| REF    | R215--   | 99284    |
| DATE   | 12/14/05 |          |
| DRW    | HCUSR215 | 05348159 |
| HC-ENG | EC/WHK   | *        |
| SEQN   | 98363    |          |
| FROM   | CDM      |          |
| JREF   | 1SSZ215  | Z07      |

|          |       |     |
|----------|-------|-----|
| TC LL    | 20.0  | PSF |
| TC DL    | 10.0  | PSF |
| BC DL    | 10.0  | PSF |
| BC LL    | 0.0   | PSF |
| TOT.LD.  | 40.0  | PSF |
| DUR.FAC. | 1.25  |     |
| SPACING  | 24.0" |     |

F. COLLINS, JR.  
No. 82292  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

ALPINE  
Engineered Products, Inc.  
1950 Marley Drive  
Haines City, FL 33844  
FL Certificate of Authorization # 567

CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON AN ALPINE TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

NOTES:  
THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.  
ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE, FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

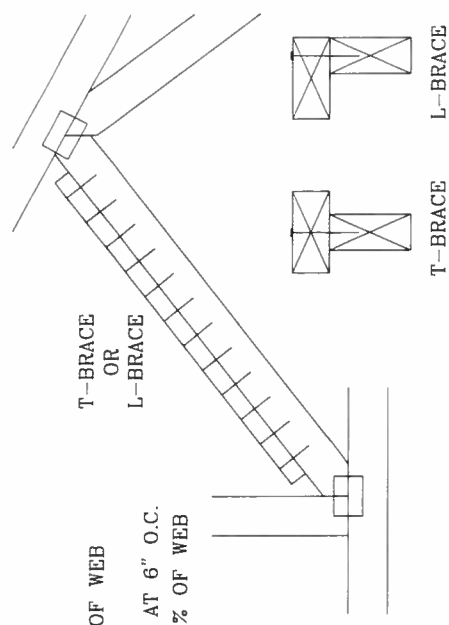
| WEB MEMBER SIZE | SPECIFIED CLB BRACING | ALTERNATIVE BRACING T OR L-BRACE | SCAB BRACE |
|-----------------|-----------------------|----------------------------------|------------|
| 2X3 OR 2X4      | 1 ROW                 | 2X4                              | 1-2X4      |
| 2X3 OR 2X4      | 2 ROWS                | 2X6                              | 2-2X4      |
| 2X6             | 1 ROW                 | 2X4                              | 1-2X6      |
| 2X6             | 2 ROWS                | 2X6                              | 2-2X4(*)   |
| 2X8             | 1 ROW                 | 2X6                              | 1-2X8      |
| 2X8             | 2 ROWS                | 2X6                              | 2-2X6(*)   |

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

(\*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

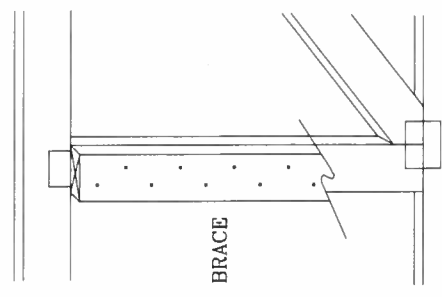
T-BRACING  
OR  
L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE  
ATTACH WITH 16d NAILS AT 6" O.C.  
BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.  
NO MORE THAN (1) SCAB PER FACE.  
ATTACH WITH 10d OR .128"x3" GUN NAILS AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579.640

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

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JAMES F. COLLINS, JR.  
Professional Engineer  
No. 52212  
State of Florida

TC LL  
TC DL  
BC DL  
BC LL  
TOT. LD.  
DUR. FAC.  
SPACING

PSF  
PSF  
PSF  
PSF  
PSF

REF  
DATE  
DRWG  
-ENG

CLB SUBST.  
11/26/03  
BRLBSUB1103  
MLH/KAR