RS02-DPS-01-113818

F

41

CITY OF

PORTLAND, OREGON

OFFICE OF PLANNING AND DEVELOPMENT REVIEW

1900 SW 4th Ave, Suite 5000

Portland, OR 97201

MULTNOMAH COUNTY

41

RESIDENTIAL 1 & 2 FAMILY PERMIT

02-113818-DFS-01-RS

Site Address: 2635 SW HUME ST

Issued: 7/31/02

PROJECT INFORMATION		Occ. Group	Const. Type
Single Family Dwelling	Addition	R3	V-N

Project Description: TRUSSES FOR ADDITION OF 750 SF TO INCLUDE NEW KITCHEN, DINING, PORCH AND LIVING ROOM

APPLICANT	FRANCIS X RUDLOFF	Phone (503) 246-0883
PROPERTY OWNER	FRANCIS X RUDLOFF & SUSAN B RUDLOFF	Phone (503) 246-0883
CONTRACTOR	FRANCIS X RUDLOFF	Phone

Project Details

Code Edition (Year)	2000
Mechanical Subcontractor Label #	02-07509
Plumbing Subcontractor Label #	01-014766
Zoning Enforcement Agency	Portland

Project Details

Electrical Subcontractor Label #	02-07371
Number of Stories	1
Water District	PORTLAND WATEI

PAID

JUL 31 2002

CITY OF PORTLAND

BEFORE YOU DIG ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is 1-800-332-2344).

CITY CONTACT Phone:

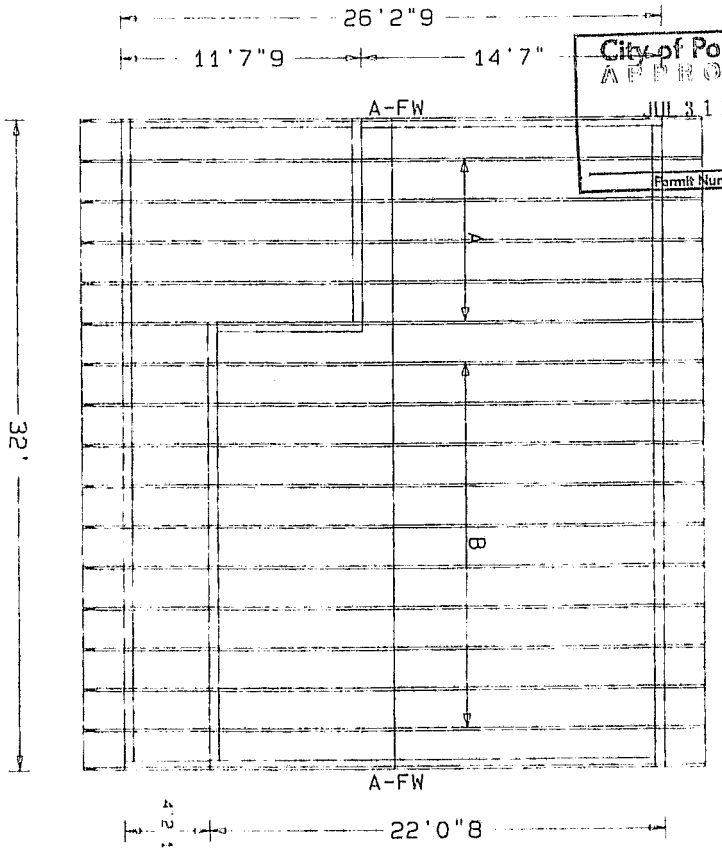
E-Mail: Fax: (503) 823-4172

INSPECTION REQUEST PHONE NUMBERS

Building/Trade Inspections - Call Before 6:00 AM: (503) 823-7000

TDD: (503) 823-6868

IVR Inspection Request Number: 2225561



City of Portland
APPROVED
JUL 31 2002
Permit Number

USC COMPONENTS OF OREGON INC.
CORNELIUS, OREGON
SECT 25,17&18 AND 19 TL 25-17
QUALITY AUDITED

DESIGNED BY DAVID A. R. ECKHARD	JOB DESCRIPTION RUDLOFF ADDITION	JOB LOCATION 2635 S.W. RUME STREET

JOB NO. 020818
PAGE NO. 1 OF 1

(502358 RUDLOFF ADDITION - A FW) A-FWJ

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

TOP CHORD 2x4 HF #2
BOT CHORD 2x4 HF #2
WEBS 2x4 HF Standard :M7, M8, M9, M10, M11 2x4 HF #2:

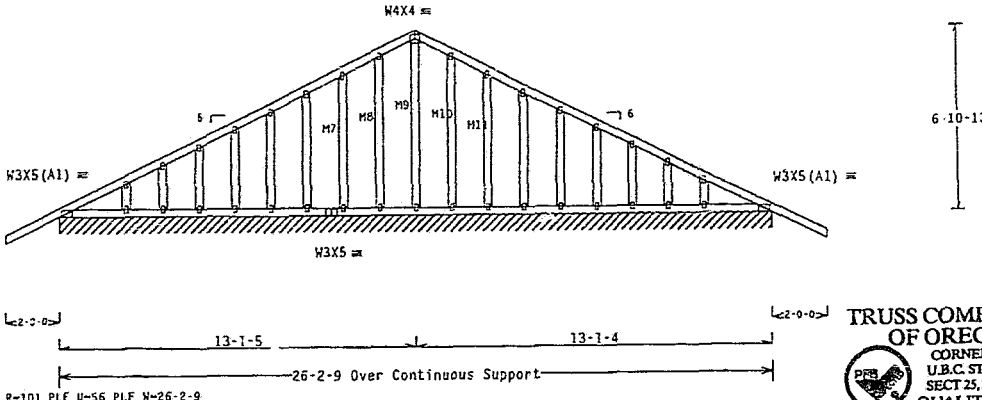
SEE DWGS A0801SEN0699, GBLLETIN0699, & GBLBRSTF0699 FOR MORE REQUIREMENTS.

10 PSF BC LIVE LOAD PER UBC.

80 MPH WIND, 15.00 FT MEAN HGT, ASCE 7-93, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 50 MI FROM COAST, CAT I, EXP C, WIND TC DL=7.0 PSF, WIND BC DL=7.0 PSF.

IN LIEU OF RIGID CEILING USE PURLINS: TO BRACE BC @ 24.00" OC

DEFLECTION MEETS L/360.00 LIVE AND L/240.00 TOTAL LOAD.



TRUSS COMPONENTS OF OREGON, INC.
CORNELIUS, OREGON
U.B.C. STANDARD 25-17
SECT 25,1708 & 39
QUALITY AUDITED

Note: All Plates Are W15X3 Except As Shown.

PLT TYP WAVE TPI-95 Design Criteria: TPI(STD)/UBC QTY:2 OR/-/1/-/-/R/- Scale -.25"/Ft.

ALPINE
Tyrrell Engineering
Edgewood, WA 98371

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI-93 (HANDLING INSTALLING AND BRACING), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR; SUITE 200, MADISON, WI 53719). FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS, BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID 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 TRUSSES IN CONFORMANCE WITH TPI-81 FOR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION) AND TPI. ALPINE CONNECTORS ARE MADE OF ASTM A653 GRAD GALV. STEEL. EXCEPT AS NOTED APPLY CONNECTORS TO EACH FACE OF TRUSS, AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 169 A-E. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1-1995 SECTION 2.

REGISTERED PROFESSIONAL ENGINEER 15038 Jun 14 '02 DANIEL J. TYRRELL EXP. 6-30-04

TC LL	25.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	45.0 PSF
DUR.FAC.	1.15
SPACING	24.0"

REF	R7175-62481
DATE	05/14/02
DRW	WAUSR7175 02165073
WA-ENG	CT/DT
SEQN	- 138707
FROM	DAB

(502358-RUDLOFF ADDITION - A)

A

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

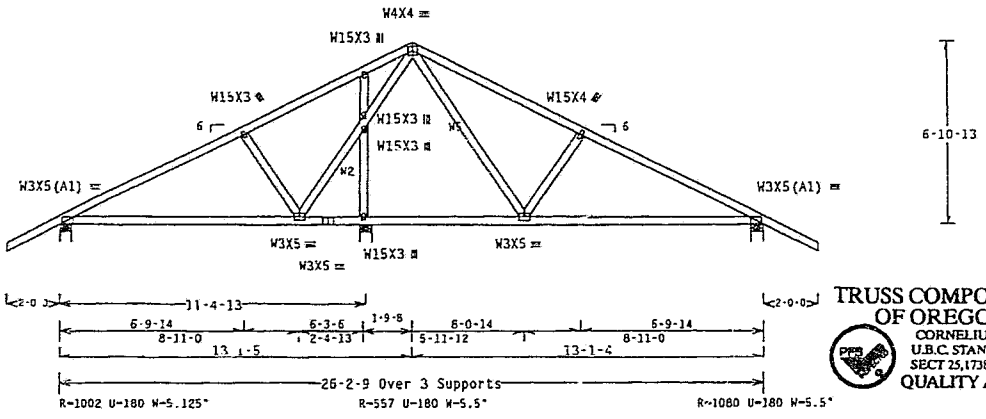
TOP CHORD 2x4 HF #2
BOT CHORD 2x4 HF #2
WEBS 2x4 HF Standard :W2, W5 2x4 HF #2:

IN LIEU OF RIGID CEILING USE PURLINS: TO BRACE BC @ 24.00" OC

10 PSF BC LIVE LOAD PER UBC.

80 MPH WIND, 15.00 FT MEAN HGT, ASCE 7-93, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 50 MI FROM COAST, CAT I, EXP C. IND TC DL=7.0 PSF, WIND BC DL=7.0 PSF.

DEFLECTION MEETS L/360.00 LIVE AND L/240.00 TOTAL LOAD.



TRUSS COMPONENTS OF OREGON, INC.
CORNELIUS, OREGON
U.B.C. STANDARD 25-17
SECT 25,1738 & 39
QUALITY AUDITED

PLT TYP. WAVE TPI-95

Design Criteria: TPI(STD)/UBC

QTY:5

OR/-/1/-/-/R/-

Scale -.25"/Ft.

ALPINE
Tyrrell Engineering
Edgewood, WA 98371

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HIB 91 (HANDLING INSTALLING AND BRACING), PUBLISHED BY TPI. (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR.; SUITE 200, MADISON, WI 53719). FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS, BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.
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REGISTERED PROFESSIONAL ENGINEER
15038
Jun 14 '02
RENEWAL 6-30-04
DANIEL J. TYRRELL
EXP. 6-30-04

TC LL	25.0 PSF	REF R7175-62482
TC DL	10.0 PSF	DATE 06/14/02
BC DL	10.0 PSF	DRW WAUSR7175 02165074
BC LL	0.0 PSF	WA-ENG CT/DT
TOT.LD.	45.0 PSF	SEQN - 136710
DUR.FAC.	1.15	FROM DAB
SPACING	24.0"	

(502358 RUDLOFF ADDITION - B)

B

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

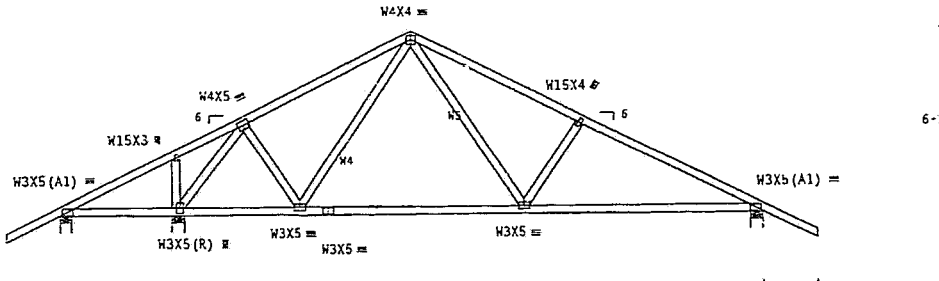
TOP CHORD 2x4 HF #2
BOT CHORD 2x4 HF #2
WEBS 2x4 HF Standard :W4, W5 2x4 HF #2

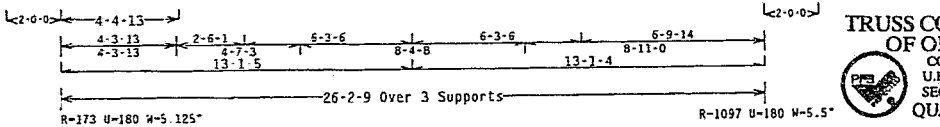
80 MPH WIND, 15.00 FT MEAN HGT, ASCE 7-93, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 50 MI FROM COAST, CAT I, EXP C, WIND TC DL=7.0 PSF, WIND BC DL=7.0 PSF.

IN LIEU OF RIGID CEILING USE PURLINS: TO BRACE BC @ 24.00" OC

DEFLECTION MEETS L/360.00 LIVE AND L/240.00 TOTAL LOAD.

10 PSF BC LIVE LOAD PER UBC.





TRUSS COMPONENTS OF OREGON, INC.
CORNELIUS, OREGON
U.B.C. STANDARD 23-17
SECT 25,1738 & 39
QUALITY AUDITED

PLT TYP. WAVE TPI-95

Design Criteria: TPI(STD)/UBC

QTY:10 OR/-/1/-/-/R/-

Scale =.25"/Ft.

ALPINE
Tyrrell Engineering
Edgewood, WA 98371

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI-91 (HANDLING INSTALLING AND BRACING) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719). FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS. BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID 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 TRUSSES IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION) AND TPI. ALPINE CONNECTORS ARE MADE OF ZOGA A35% A653 GRADE 33KSI, EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS, AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 160 A-2. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2.

REGISTERED PROFESSIONAL ENGINEER
15038
Jun 14 '02
RENEWAL 6-30-04
EXP. 6-30-04

TC LL	25.0 PSF	REF	R7175-62483
TC DL	10.0 PSF	DATE	06/14/02
BC DL	10.0 PSF	DRW	WAJSR7175 021602P5
BC LL	0.0 PSF	WA-ENG	CT/DT
TOT.LD.	45.0 PSF	SEQN	138713
DUR.FAC.	1.15	FROM	DAB
SPACING	24.0"		

ASCE 7-93: 80 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.05, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	GRADE	NO BRACES	(1) 1X4 "L" BRACE * GROUP A	(1) 1X4 "L" BRACE * GROUP B	(2) 2X4 "L" BRACE ** GROUP A	(2) 2X4 "L" BRACE ** GROUP B	(1) 2X6 "L" BRACE * GROUP A	(1) 2X6 "L" BRACE * GROUP B	(2) 2X6 "L" BRACE ** GROUP A	(2) 2X6 "L" BRACE ** GROUP B
24" O.C.	SPF	#1 / #2	4' 2"	7' 3"	7' 5"	8' 7"	8' 9"	10' 2"	10' 6"	13' 5"	13' 10"	14' 0"	14' 0"
	HF	#3	4' 1"	6' 9"	6' 9"	8' 7"	8' 7"	10' 2"	10' 2"	13' 5"	13' 5"	14' 0"	14' 0"
		STUD	4' 1"	6' 9"	6' 9"	8' 7"	8' 7"	10' 2"	10' 2"	13' 5"	13' 5"	14' 0"	14' 0"
		STANDARD	4' 1"	5' 9"	5' 9"	7' 3"	7' 3"	10' 2"	10' 2"	11' 11"	11' 11"	14' 0"	14' 0"
	SP	#1	4' 3"	7' 5"	7' 9"	8' 7"	9' 3"	10' 2"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
	DFL	#2	4' 3"	7' 5"	7' 9"	8' 7"	9' 3"	10' 2"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
		#3	4' 3"	6' 11"	6' 11"	8' 7"	9' 0"	10' 2"	10' 9"	13' 5"	14' 0"	14' 0"	14' 0"
		STUD	4' 3"	6' 10"	6' 10"	8' 7"	9' 0"	10' 2"	10' 9"	13' 5"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 2"	5' 11"	5' 11"	7' 10"	7' 10"	10' 2"	10' 6"	12' 2"	12' 2"	14' 0"	14' 0"
16" O.C.	SPF	#1 / #2	4' 10"	8' 3"	8' 6"	9' 9"	10' 1"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	4' 8"	8' 3"	8' 3"	9' 9"	9' 9"	11' 6"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 8"	8' 3"	8' 3"	9' 9"	9' 9"	11' 6"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 5"	7' 1"	7' 1"	9' 4"	9' 4"	11' 6"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	5' 3"	8' 3"	8' 11"	9' 9"	10' 7"	11' 6"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#2	5' 2"	8' 3"	8' 11"	9' 9"	10' 7"	11' 6"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 11"	8' 3"	8' 8"	9' 9"	10' 4"	11' 6"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 11"	8' 3"	8' 5"	9' 9"	10' 1"	11' 6"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 10"	7' 3"	7' 3"	9' 7"	9' 7"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#1 / #2	5' 5"	9' 1"	9' 4"	10' 9"	11' 1"	12' 10"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	5' 3"	9' 1"	9' 1"	10' 9"	10' 9"	12' 10"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	5' 2"	9' 1"	9' 1"	10' 9"	10' 9"	12' 10"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	5' 2"	8' 2"	8' 2"	10' 8"	10' 9"	12' 10"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	5' 9"	9' 1"	9' 10"	10' 9"	11' 7"	12' 10"	13' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#2	5' 8"	9' 1"	9' 10"	10' 9"	11' 7"	12' 10"	13' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 5"	9' 1"	9' 7"	10' 9"	11' 4"	12' 10"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	5' 5"	9' 1"	9' 7"	10' 9"	11' 4"	12' 10"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	5' 3"	8' 5"	8' 5"	10' 9"	11' 1"	12' 10"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"

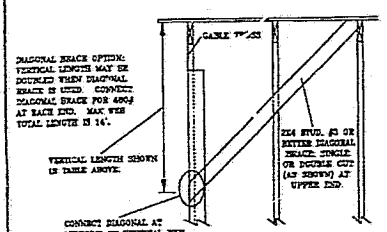
BRACING GROUP SPECIES AND GRADES:

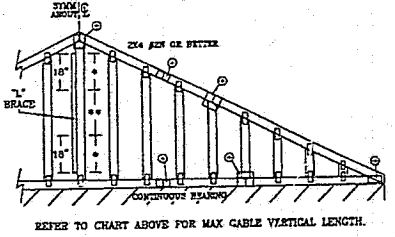
GROUP A:

- SPRUCE-PINE-FIR: #1 / #2 STANDARD; #3 STUD
- HEM-FIR: #2 STUD; #3 STUD/STANDARD
- DOUGLAS FIR-LARCH: #3 STUD STANDARD
- SOUTHERN PINE: #3 STUD STANDARD

GROUP B:

- HEM-FIR: #1 & BTR
- SOUTHERN PINE: #1
- DOUGLAS FIR-LARCH: #1, #2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER OVERHANGS (0 PLF TC DEAD LOAD).

GABLE END SUPPORTED LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS
* FOR (1) "L" BRACE: SPACE NAILS AT 8" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 8" O.C. IN 18" END ZONES AND 8" 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' 5"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

THIS DRAWING REPLACES DRAWING A8015E

REF	ASCE-GAB8015
DATE	06/25/99
DRWG	AG8015EN0699
-ENG	

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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RECIPIENT MUST 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 TRUSSES IN CONFORMANCE WITH TPI1 OR FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI1 OR FAILURE TO PROPERLY BRACE THE TRUSSES. DESIGN CONFORMS WITH ANSI/TPI1-1995 NATIONAL DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSS DESIGN. HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION) AND TPI. ALPINE CONNECTORS ARE MADE OF 20GA ASTM A653 GR40 GALV. STEEL EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 160 4-7. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2

REGISTERED PROFESSIONAL ENGINEER 15058 JUN 14 '02 DANIEL J. TAYLOR

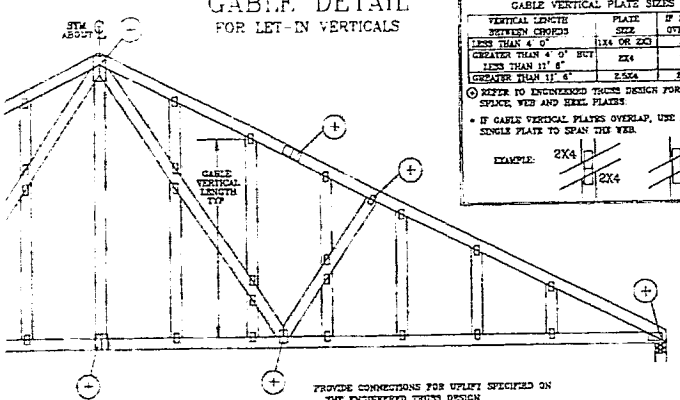
EXP 6-30-04

TOT. LD. 60 PSF

MAX. SPACING 24.0"

TRUSS COMPONENTS OF OREGON, INC.
CORNELIUS, OREGON
U.B.C. STANDARD 25-7
SECT 25,1738 & 39
QUALITY AUDITED

GABLE DETAIL
FOR LET-IN VERTICALS

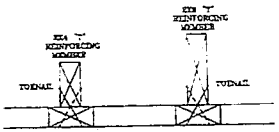


GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	2X4 OR 2X6	2X8
GREATER THAN 4' 0" BUT LESS THAN 11' 8"	2X4	2X8
GREATER THAN 11' 8"	2.5X6	2.5X8

⊙ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE: 2X4 2X4 2X8



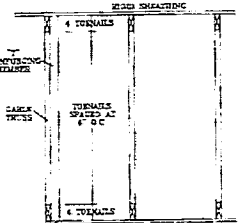
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPACING, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MPH	"T" REINF. MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT.	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	10 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:
ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24" O.C SP #3
"T" REINFORCING MEMBER SIZE = 2X4
"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
(1) 2X4 "L" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN

ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON TOENAILS AT 6" O.C. PLUS (4) 16d COMMON TOENAILS IN TOP AND BOTTOM CHORD
GUN DRIVEN NAILS - 0.131" X 3"
TOENAILS AT 6" O.C. PLUS (4) TOENAILS IN TOP AND BOTTOM CHORD

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
ASCE GABLE DETAIL DRAWINGS
A1015END699, A1015EN0699, A9015ENO699, A0601SEN0699, A07015END699
A1103ENDO699, A1003ENO699, A9003ENO699, A0603ENO699, A0703ENO699
SBCCI GABLE DETAIL DRAWINGS
S1015ENO699, S1001SENO699, S9915ENO699, S0601SENO699, S0701SENO699
S1103ENO699, S1003ENO699, S9903ENO699, S0603ENO699, S0703ENO699

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & MC283294035

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HIGHLY DETAILED INSTALLING AND BRACING PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR.; SUITE 200; 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. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH THIS OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION) AND "PI" ALPINE CONNECTORS ARE MADE OF 20GA ASTM A653 GRAD 60(Fy) STEEL, EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND UNLESS OTHERWISE INDICATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 160 AND THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2.

ALPINE
ALPINE ENGINEERED PRODUCTS, INC
POMPANO BEACH FLORIDA

REGISTERED PROFESSIONAL ENGINEER
15038
DANIEL J. TARRES
EXP. 6-30-04

REF	LET-IN VERT
DATE	06/25/99
DRWG	GBLLETIN0699
ENG	DLJ/KAR
TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

TRUSS COMPONENTS OF OREGON, INC.
CORNELIUS, OREGON
U.B.C. STANDARD 25-17
SECT 25,1738 & 39
QUALITY AUDITED

COMMON RESIDENTIAL GABLE END WIND BRACING REQUIREMENTS – STIFFENERS

80 MPH WIND, 30' FT MEAN HGT, ASCE 7-93, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, I=1.05, CAT 1, EXP C, WIND TC DL=5.0 PSF. WIND BC DL=5.0 PSF.

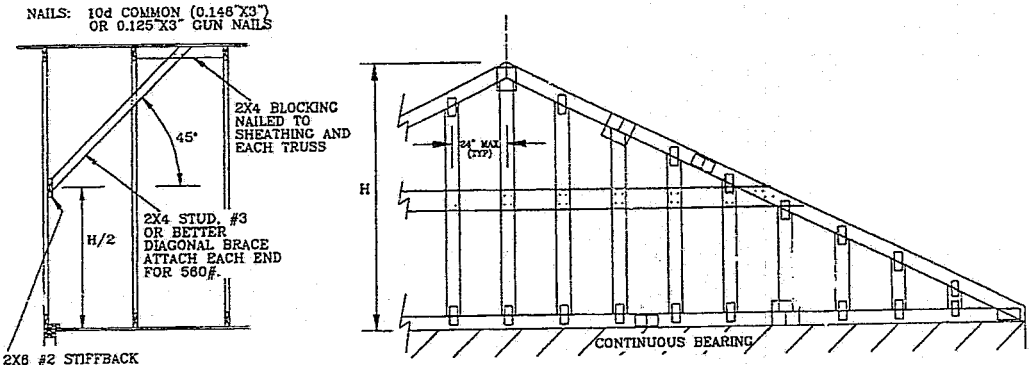
LATERAL CHORD BRACING REQUIREMENTS
TOP: CONTINUOUS ROOF SHEATHING
BOT: CONTINUOUS CEILING DIAPHRAGM

SEE ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN ON THIS DETAIL.

H LESS THAN 4'6" – NO STUD BRACING REQUIRED

H GREATER THAN 4'6" TO 7'6" IN LENGTH
PROVIDE A 2X6 STIFFBACK AT MID-HEIGHT AND BRACE STIFFBACK TO ROOF DIAPHRAGM EVERY 6'0" (SEE DETAIL BELOW OR REFER TO DRAWING A08030ENG699).

H GREATER THAN 7'6" TO 12'0" MAX:
PROVIDE A 2X6 STIFFBACK AT MID-HEIGHT AND BRACE TO ROOF DIAPHRAGM EVERY 4'0" (SEE DETAIL BELOW OR REFER TO DRWG A08030ENG699).



THIS DRAWING REPLACES DRAWING 59469/GE

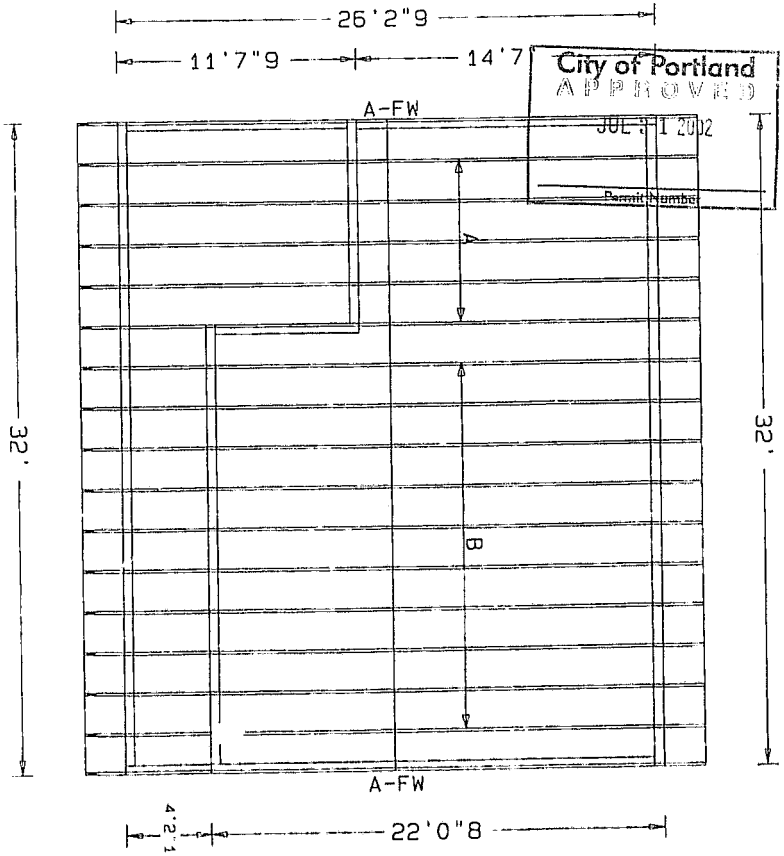
ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

ANY ALTERATIONS OF TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HIB-91 HANDLING INSTALLING AND BRACING, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, 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. IT IS THE RESPONSIBILITY OF THE ERECTOR TO OBTAIN AND REVIEW A COPY OF THIS DESIGN AND ASSOCIATED DRAWINGS PRIOR TO ERECTION. IT IS THE RESPONSIBILITY OF THE ERECTOR TO ASSUME ALL RESPONSIBILITY FOR THE ACCURATE ASSEMBLY OF THE TRUSSES AND TEMPORARY AND PERMANENT BRACING OF THE ENTIRE STRUCTURE. THE BUILDING DESIGNER IS RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE BUILDING. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI1 OR FAILURE TO PROVIDE FOR THE TEMPORARY AND PERMANENT BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS DIATIONAL DESIGN SPECIFICATION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION AND TPI. ALPINE CONNECTORS ARE MADE OF 20GA ASTM A653 GR40 GALV. STEEL EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND LOCATE AS SHOWN. REMOVE LOOSE ON THIS DESIGN. POSITION CONNECTORS PER DRAWING. IF A-E, THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE ENGINEERING RESPONSIBILITY OF THE BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2.

REGISTERED PROFESSIONAL ENGINEER 15038 Jun 14 '04 STATE OF OREGON DANIEL J. TAYLOR
EXP 6-30-04

TC LL	PSF	REF	GE WHALER
TC DL	PSF	DATE	06/25/89
BC DL	PSF	DRWG	GBLBRSTF0699
BC LL	PSF	ENG	SJR/KAR
TOT. LD.	PSF		
DUR. FAC.			
MAX SPACING	24"		

TRUSS COMPONENTS OF OREGON, INC.
CORNELIUS, OREGON
U.B.C. STANDARD 25-17
SECT 25, 1738 & 39
QUALITY AUDITED



City of Portland
APPROVED
JUL 11 2002
Permit Number

TRUSS COMPONENTS OF OREGON, INC.
CORNELIUS, OREGON
T.1S.R.3W.W.M. LAND 25-1S
SECT 25,17,18 & 39
QUALITY AUDITED

JOB NO	DESIGNED BY	JOB DESCRIPTION	JOB LOCATION
502358	DAVE A. BURCKHARD	RUDLOFF ADDITION	2635 S W HUME STREET

PAGE NO 1 OF 1

(502358-RUDLOFF ADDITION - A-FW) A-FW

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

TOP CHORD 2x4 HF #2
BOT CHORD 2x4 HF #2
WEBS 2x4 HF Standard :M7, M8, M9, M10, M11 2x4 HF #2:

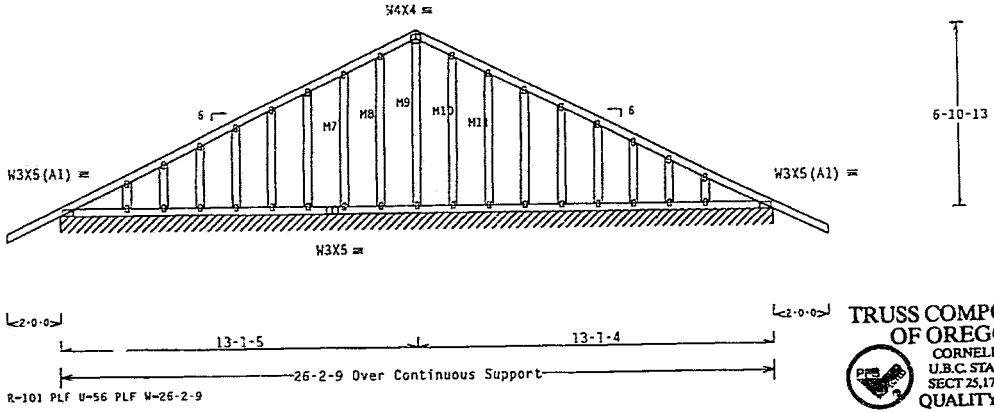
SEE DWGS A08015EN0699, GBLLETIN0699, & GBLBRSTF0699 FOR MORE REQUIREMENTS.

10 PSF BC LIVE LOAD PER UBC.

80 MPH WIND, 15.00 FT MEAN HGT, ASCE 7-93, CLOSED BLDG. LOCATED ANYWHERE IN ROOF. 50 MI FROM COAST. CAT I. EXP C, WIND TC DL=7.0 PSF, WIND BC DL=7.0 PSF.

IN LIEU OF RIGID CEILING USE PURLINS: TO BRACE BC @ 24.00" OC

DEFLECTION MEETS L/360.00 LIVE AND L/240.00 TOTAL LOAD.



TRUSS COMPONENTS OF OREGON, INC.
CORNELIUS, OREGON
U.B.C. STANDARD 25-17
SECT 25,1738 & 39
QUALITY AUDITED

Note: All Plates Are W15X3 Except As Shown.
PLT TYP. WAVE TPI-95

Design Criteria: TPI(STD)/UBC

QTY:2 OR/-/1/-/-/R/- Scale -.25"/Ft.

TC LL	25.0 PSF	REF	R7175-62481
TC DL	10.0 PSF	DATE	06/14/02
BC DL	10.0 PSF	DRW	WAUSR7175 02165073
BC LL	0.0 PSF	WA-ENG	CT/DT
TOT.LD.	45.0 PSF	SEQN	- 138707
DUR.FAC.	1.15	FROM	DAB
SPACING	24.0"		

ALPINE
Tyrrell Engineering
Edgewood, WA 98371

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI-91 (HANDLING INSTALLING AND BRACING). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719). FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS, BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID 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 TRUSSES IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY TH AMERICAN FOREST AND PAPER ASSOCIATION) AND TPI. ALPINE CONNECTORS ARE MADE OF ZGA AS 1653 GRADE GALV. STEEL. EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS, AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 160 A-I. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2.

REGISTERED PROFESSIONAL ENGINEER 15080 Jun 14 '02 DANIEL J. TYRRELL EXP. 6-30-04

(502358-RUDLOFF ADDITION - A)

A

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

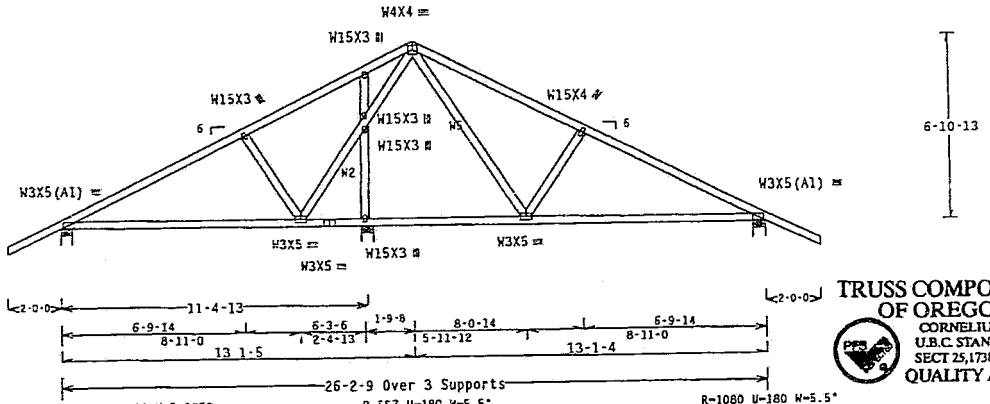
TOP CHORD 2x4 HF #2
BOT CHORD 2x4 HF #2
WEBS 2x4 HF Standard :W2, W5 2x4 HF #2:

IN LIEU OF RIGID CEILING USE PURLINS: TO BRACE BC @ 24.00" OC

10 PSF BC LIVE LOAD PER UBC.

80 MPH WIND, 15.00 FT MEAN HGT, ASCE 7-93, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 50 MI FROM COAST, CAT I, EXP C, WIND TC DL=7.0 PSF, WIND BC DL=7.0 PSF.

DEFLECTION MEETS L/360.00 LIVE AND L/240.00 TOTAL LOAD.



TRUSS COMPONENTS OF OREGON, INC.
CORNELIUS, OREGON
U.B.C. STANDARD 25-17
SECT 25,1738 & 39
QUALITY AUDITED

PLT TYP. WAVE TPI-95

Design Criteria: TPI(STD)/UBC

TY:S OR/-/1/-/-/R/-

Scale =.25"/Ft.

ALPINE
Tyrrell Engineering
Edgewood, WA 98371

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HIB 91 (HANDLING INSTALLING AND BRACING), PUBLISHED BY TPI. (GABLE PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719). FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INSTALLED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS. BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.
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REGISTERED PROFESSIONAL ENGINEER 25038 Jun 14 '02 OREGON J. TYRRELL
EXP. 6-30-04

TC LL	25.0 PSF	REF R7175-62482
TC DL	10.0 PSF	DATE 06/14/02
BC DL	10.0 PSF	DRW WA05R7175 02165074
BC LL	0.0 PSF	WA-ENG CT/DT
TOT.LD.	45.0 PSF	SEQN - 138710
DUR.FAC.	1.15	FROM DAB
SPACING	24.0"	

(502358-RUDLOFF ADDITION - B)

B

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

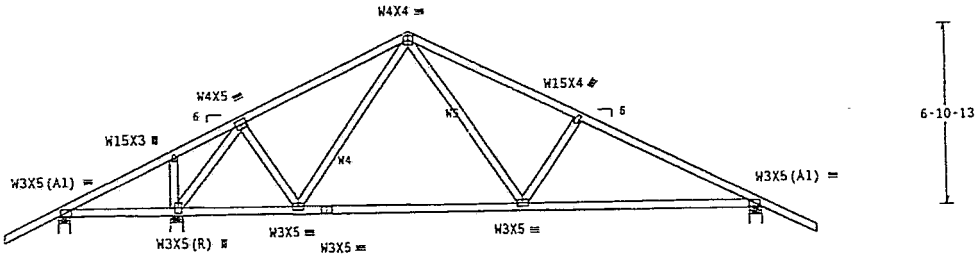
TOP CHORD 2x4 HF #2
BOT CHORD 2x4 HF #2
WEBS 2x4 HF Standard :W4, W5 2x4 HF #2:

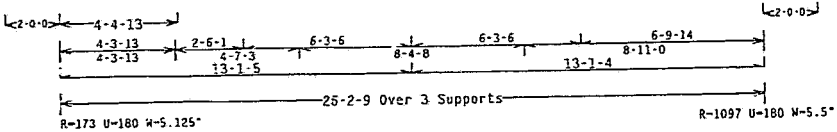
IN LIEU OF RIGID CEILING USE PURLINS: TO BRACE BC @ 24.00" OC

10 PSF BC LIVE LOAD PER UBC.

80 MPH WIND, 15.00 FT MEAN HGT, ASCE 7-93, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 50 MI FROM COAST, CAT I, EXP C, WIND TC DL=7.0 PSF, WIND BC DL=7.0 PSF.

DEFLECTION MEETS L/360.00 LIVE AND L/240.00 TOTAL LOAD.





TRUSS COMPONENTS OF OREGON, INC.
CORNELIUS, OREGON
U.B.C. STANDARD 25-17
SECT 25,1738 & 39
QUALITY AUDITED

PLT TYP. WAVE TPI-95

Design Criteria: TPI(STD)/UBC

QTY:10 OR/-/1/-/-/R/-

Scale =.25"/Ft.

ALPINE
Tyrrell Engineering
Edgewood, Wa 98371

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HIB-93 (HANDLING INSTALLING AND BRACING) AVAILABLED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719). FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS. BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID 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 TRUSSES IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. THIS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION) AND TPI. ALPINE ENGINEERED PRODUCTS, INC. DESIGNS ARE BASED ON MATERIALS MANUFACTURED BY ALPINE ENGINEERED PRODUCTS, INC. CONNECTORS ARE MADE OF ZGSA A37M A653 GR40 G90 COIL STEEL, EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS, AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 360 A-1. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2.

REGISTERED PROFESSIONAL ENGINEER 15038 Jun 14 '02 RENEWAL DATE 6-30-04 DANIEL J. TYRRELL

EXP. 6-30-04

TC LL	25.0 PSF	REF	R7175-62463
TC DL	10.0 PSF	DATE	06/14/02
BC DL	10.0 PSF	DRW	WAUSR7175 02165075
BC LL	0.0 PSF		WA-ENG CT/DT
TOT.LD.	45.0 PSF	SEQN	138713
DUR.FAC.	1.15	FROM	DAB
SPACING	24.0"		

ASCE 7-93: 80 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.05, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	GRADE / BRACE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "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
24" O.C.	SPF	#1 / #2	4' 2"	7' 3"	7' 5"	8' 7"	8' 9"	10' 2"	10' 6"	13' 6"	13' 10"	14' 0"	14' 0"
	HF	#3	4' 1"	6' 9"	6' 9"	8' 7"	8' 7"	10' 2"	10' 2"	13' 5"	13' 5"	14' 0"	14' 0"
		STUD	4' 1"	6' 9"	6' 9"	8' 7"	8' 7"	10' 2"	10' 2"	13' 5"	13' 5"	14' 0"	14' 0"
		STANDARD	4' 1"	5' 9"	5' 9"	7' 6"	7' 6"	10' 2"	10' 2"	11' 11"	11' 11"	14' 0"	14' 0"
	SP	#1	4' 7"	7' 3"	7' 9"	8' 7"	9' 3"	10' 2"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
	DFL	#2	4' 6"	7' 3"	7' 9"	8' 7"	9' 3"	10' 2"	11' 0"	13' 5"	14' 0"	14' 0"	14' 0"
		#3	4' 3"	6' 11"	6' 11"	8' 7"	9' 0"	10' 2"	10' 9"	13' 5"	14' 0"	14' 0"	14' 0"
		STUD	4' 3"	6' 10"	6' 10"	8' 7"	9' 0"	10' 2"	10' 9"	13' 5"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 2"	5' 11"	5' 11"	7' 10"	7' 10"	10' 2"	10' 6"	12' 2"	12' 2"	14' 0"	14' 0"
16" O.C.	SPF	#1 / #2	4' 10"	8' 3"	8' 6"	9' 9"	10' 1"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	4' 8"	8' 3"	8' 3"	9' 9"	9' 9"	11' 6"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 8"	8' 3"	8' 3"	9' 9"	9' 9"	11' 6"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 8"	7' 1"	7' 1"	9' 4"	9' 4"	11' 6"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	5' 3"	8' 3"	8' 11"	9' 9"	10' 7"	11' 6"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#2	5' 2"	8' 3"	8' 11"	9' 9"	10' 7"	11' 6"	12' 7"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 11"	8' 3"	8' 8"	9' 9"	10' 4"	11' 6"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 11"	8' 3"	8' 5"	9' 9"	10' 4"	11' 6"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 10"	7' 3"	7' 3"	9' 7"	9' 7"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#1 / #2	5' 5"	9' 1"	9' 4"	10' 9"	11' 1"	12' 10"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	5' 3"	9' 1"	9' 1"	10' 9"	10' 9"	12' 10"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	5' 2"	9' 1"	9' 1"	10' 9"	10' 9"	12' 10"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	5' 2"	8' 2"	8' 2"	10' 9"	10' 9"	12' 10"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	5' 9"	9' 1"	9' 10"	10' 9"	11' 7"	12' 10"	13' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#2	5' 8"	9' 1"	9' 10"	10' 9"	11' 7"	12' 10"	13' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 5"	9' 1"	9' 7"	10' 9"	11' 4"	12' 10"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	5' 5"	9' 1"	9' 7"	10' 9"	11' 4"	12' 10"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	5' 3"	8' 5"	8' 5"	10' 9"	11' 1"	12' 10"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPF/SCH-FIR/HF
#1 / #2 STANDARD
#3 STUD
STUD
STANDARD

HEM-FIR
#2 STUD
#3 STANDARD

DOUGLAS FIR-LARCH
#2 STUD
STANDARD

SOUTHERN PINE
#3 STUD
STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).

GABLE END SUPPORTED LOAD FROM 4' 0" OUTLOOKERS WITH 8" 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

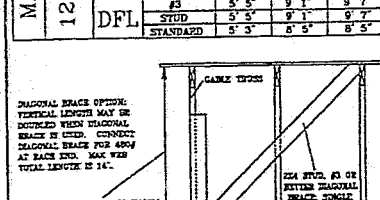
ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 8" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

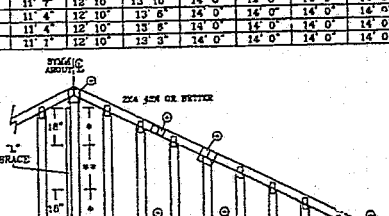
"L" BRACING MUST BE A MINIMUM OF 60% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	2X4 OR 2X6
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWING A80158

REF	ASCE-GAB8015
DATE	08/25/99
DRWG	A08015EN0699
-ENG	

TOT. LD. 60 PSF

MAX. SPACING 24.0"

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

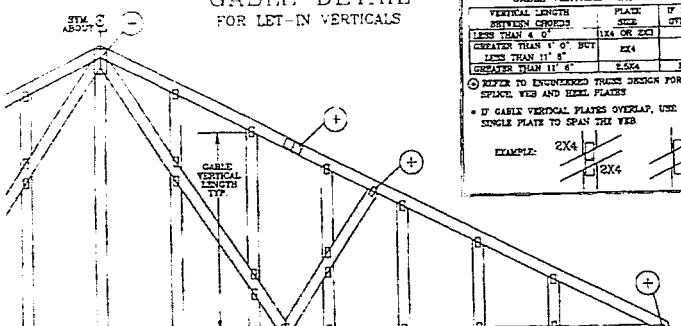
REMARKS/NOTES: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HIS-91 HANDLING INSTALLING AND BRACING, PUBLISHED BY TPI, HIS & TPI INSTITUTE, 583 D'ONOFRIO DR.; SUITE 200, MADISON, WI. 53719) FOR SAFETY PRACTICE PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD DESIGN HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. INCORPORATE A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS SPECIFICATION NOR FOR ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI1, OR FABRICATING, STORING, HANDLING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH ANSI/TPI 1-1995 AND APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION) AND TPI. ALPINE CONNECTORS ARE MADE OF 20GA A-TH A653 GR40 GALV. STEEL EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION CONNECTORS PER DRAWINGS (EG 6-2). THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE ENGINEERING RESPONSIBILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2.

REGISTERED PROFESSIONAL ENGINEER 15038 Jun 14 '02 STATE OF FLORIDA DANIEL J. TARPEY

EXP. 6-30-04

TRUSS COMPONENTS OF OREGON, INC.
CORNELIUS, OREGON
U.B.C. STANDARD 25-17
SECT 25,1738 & 39
QUALITY AUDITED

GABLE DETAIL
FOR LET-IN VERTICALS

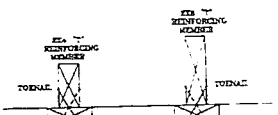


GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4'-0"	1X4 OR 2X3	2X6
GREATER THAN 4'-0" BUT LESS THAN 11'-8"	2X4	2X6
GREATER THAN 11'-6"	2.5X4	2.5X8

⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES

* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE: 2X4 2X4 2X8



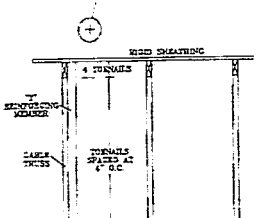
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS. MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPACING, GRADE AND SPACING) FOR (1) 1X4 "L" BRACE. GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENG'... INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT.	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	30 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:
ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24" O.C. SP #3
"L" REINFORCING MEMBER SIZE = 2X4
"T" BRACE INCREASE (FROM ABOVE) = 10% = 110
(1) 2X4 "L" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN

ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON TOENAILS AT 4" O.C. PLUS (4) 16d COMMON TOENAILS IN TOP AND BOTTOM CHORD.
GUN DRIVEN NAILS - 0.131" X 3":
TOENAILS AT 4" O.C. PLUS (4) TOENAILS IN TOP AND BOTTOM CHORD

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
ASCE GABLE DETAIL DRAWINGS
A110/15END699, A100/15END699, A090/15END699, A080/15END699, A070/15END699
A110/30END699, A100/30END699, A090/30END699, A080/30END699, A070/30END699
SBCCI GABLE DETAIL DRAWINGS
S110/15END699, S100/15END699, S090/15END699, S080/15END699, S070/15END699
S110/30END699, S100/30END699, S090/30END699, S080/30END699, S070/30END699

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & MC26294035

ALPINE
ALPINE ENGINEERED PRODUCTS INC
POMPANO BEACH FLORIDA

WARNING!!! TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO HIB-91 CHAMBLING INSTALLING AND BRACING OF METAL PLATE-ED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR.; SUITE 200; 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.
IT IS IMPORTANT FOR THE CORRECT INTERPRETATION OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, & PINE ENGINEERED PRODUCTS INC SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DRAWING UNLESS SUCH DEVIATIONS ARE AUTHORIZED IN WRITING BY THE ENGINEER OF RECORD FOR THE PROJECT.
DESIGN: ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FAILURE TO PROVIDE TEMPORARY AND PERMANENT BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY THE NATIONAL FOREST AND PAPER ASSOCIATION) AND "PI" ALPINE CONNECTORS ARE MADE OF 20GA ASTM A653 GRADE G60 STEEL, EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWING ISO A-2. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE ENGINEERING RESPONSIBILITY FOR ANY PARTICULAR BUILDING IS THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1-1995 SECTION 2

REGISTERED PROFESSIONAL ENGINEER 45038 STATE OF FLORIDA
DANIEL J. TARRE P.E.
EXP. 6-30-01

REF	LET-IN VERT
DATE	06/25/99
DRWG	GBLLETIN0699
-ENG	DLJ/KAR
TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

TRUSS COMPONENTS OF OREGON, INC.
CORNELIUS, OREGON
U.B.C. STANDARD 25-17
SECT 25,1738 & 39
QUALITY AUDITED

COMMON RESIDENTIAL GABLE END WIND BRACING REQUIREMENTS – STIFFENERS

80 MPH WIND, 30 FT MEAN HGT, ASCE 7-93, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, I=1.05, CAT 1, EXP C, WIND TC DL=5.0 PSF. WIND BC DL=5.0 PSF.

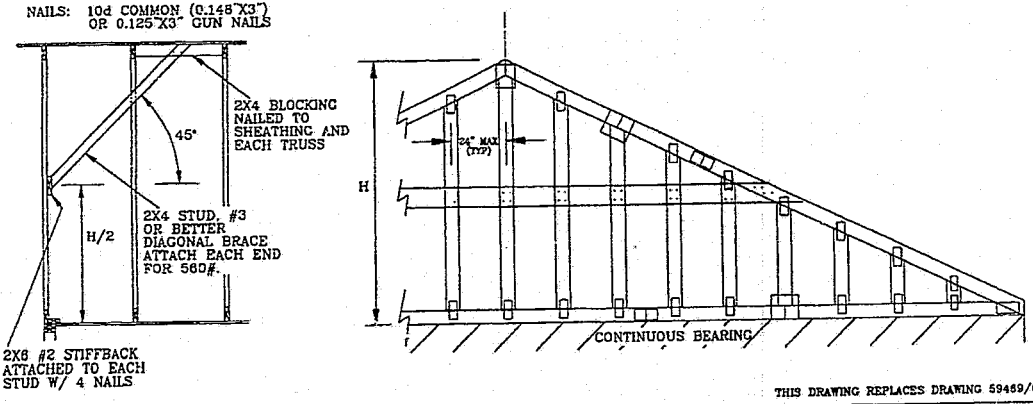
LATERAL CHORD BRACING REQUIREMENTS
TOP: CONTINUOUS ROOF SHEATHING
BOT: CONTINUOUS CEILING DIAPHRAGM

SEE ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN ON THIS DETAIL.

H LESS THAN 4'6" – NO STUD BRACING REQUIRED

H GREATER THAN 4'6" TO 7'6" IN LENGTH
PROVIDE A 2X6 STIFFBACK AT MID-HEIGHT AND BRACE STIFFBACK TO ROOF DIAPHRAGM EVERY 6'0" (SEE DETAIL BELOW OR REFER TO DRAWING A08030EN0699).

H GREATER THAN 7'6" TO 12'0" MAX:
PROVIDE A 2X6 STIFFBACK AT MID-HEIGHT AND BRACE TO ROOF DIAPHRAGM EVERY 4'0" (SEE DETAIL BELOW OR REFER TO DRWG A08030EN0699).



THIS DRAWING REPLACES DRAWING 59469/GE

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

ANY ALPINE TRUSSES REQUIRE EXTRA CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR.; SUITE 200; MADISON, WI. 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE ROOF CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.
IT IS IMPORTANT TO 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 TRUSSES IN CONFORMANCE WITH TPI1, OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION PUBLISHED BY THE AMERICAN FOREST AND PAPER ASSOCIATION) AND TPI. ALPINE CONNECTORS ARE MADE OF ZGA ASTM A653 GR40 GALV. STEEL EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 165 A-Z. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1-1995 SECTION 2.

REGISTERED PROFESSIONAL ENGINEER
59058
Jun 14 '00
STATE OF OREGON
DANIEL J. TAYLOR
EXP 6-30-01

TC LL	PSF	REF	GE WHALER
TC DL	PSF	DATE	06/25/99
BC DL	PSF	DRWG	GBLBRSTF0699
BC LL	PSF	ENG	SJP/KAR
TOT. LD.	PSF		
DUR. FAC.			
MAX SPACING	24"		

TRUSS COMPONENTS OF OREGON, INC.
CORNELIUS, OREGON
U.B.C. STANDARD 25-17
SEC. 25, T1S & 3E
QUALITY AUDITED