

**CITY OF SACRAMENTO**  
1231 I Street, Sacramento, CA 95814

**Permit No: 0113040**  
**Insp Area: 2**  
Thos Bros: 337B4

**Site Address: 7683 EL RITO WY SAC**  
Parcel No: 031-1250-014

Sub-Type: NSFR  
Housing (Y/N): N

CONTRACTOR

OWNER  
RODRIGUEZ  
7683 EL RITO WY  
SAC CA.

ARCHITECT

**Nature of Work: NSFR - 1382 SF LVNG, 410 SF ATTCHD GAR, 143 SF CVRD PRCH**

**CONSTRUCTION LENDING AGENCY :** I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name \_\_\_\_\_ Lender's Address \_\_\_\_\_

**LICENSED CONTRACTORS DECLARATION:** I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class \_\_\_\_\_ License Number \_\_\_\_\_ Date \_\_\_\_\_ Contractor Signature \_\_\_\_\_

**OWNER-BUILDER DECLARATION:** I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

\_\_\_\_ I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

\_\_\_\_ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

\_\_\_\_ I am exempt under Sec. \_\_\_\_\_ B & PC for this reason: \_\_\_\_\_

Date \_\_\_\_\_ Owner Signature \_\_\_\_\_

**IN ISSUING THIS BUILDING PERMIT,** the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date \_\_\_\_\_ Applicant/Agent Signature \_\_\_\_\_

**WORKER'S COMPENSATION DECLARATION:** I hereby affirm under penalty of perjury one of the following declarations:

\_\_\_\_ I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

\_\_\_\_ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier	Policy Number	Exp Date
---------	---------------	----------

\_\_\_\_ (This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date \_\_\_\_\_ Applicant Signature \_\_\_\_\_

**WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.**

**THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.**

Lupe Guerrero Construction

1770 Toiyabe Ln.  
Stockton, CA 95206  
Phone: 831-809-3685

6-22-04

L.C. # 667980

To whom may I concern  
Mr. Paul Malloy has permission  
to obtain permission to Reissue  
Extension permit to seek for final  
inspection on Mr. Custulo Rodriguez house

Address 7683 EL RITO WY  
Assessor Parcel No. 031-1250-014

If you have any question please call  
831-809-3685

Sincerely Yours Thank you

Lupe Guerrero

REVISION ON ACTIVE PERMIT

NEW PLAN CHECK NO#: \_\_\_\_\_  
 OLD PLAN CHECK NO#: 0113040

DATE: 1-8-02

This sheet is to be used only when a permit has been issued, is still active, and the applicant wishes to make changes to the existing approved plans.

031-1250-014

All revisions clouded? YES \_\_\_\_\_ NO \_\_\_\_\_

JOB ADDRESS 7683 El Ritoway SUITE \_\_\_\_\_ PERMIT NO \_\_\_\_\_

AREA: \_\_\_\_\_ DBA: \_\_\_\_\_

Rodriguez

DESCRIPTION OF REVISIONS Truss Calc's

DISCIPLINE	(B)	L	P	M	E	F	S	R	D
CHECKED BY									
ROUTE TO									
CODE									
HOURS SPENT									

CONTACT: 831-809-3685 Lupe Guerrero

ADDRESS: 1770 TOYABE LN  
Stockton Ca 95206

PHONE#: 831 809-3685

# OF PLANS SUBMITTED \_\_\_\_\_ SUBMITTED TO \_\_\_\_\_

I understand that I am responsible for all plan check fees that I incur during the course of this additional plan check and that any approved plans not claimed and paid for within 3 months of notification will be disposed of and an invoice procedure for the amount due will be initiated. I further understand that an unclaimed revision may result in delay of final approval for the subject project.

DATE NOTIFIED	PLAN BIN

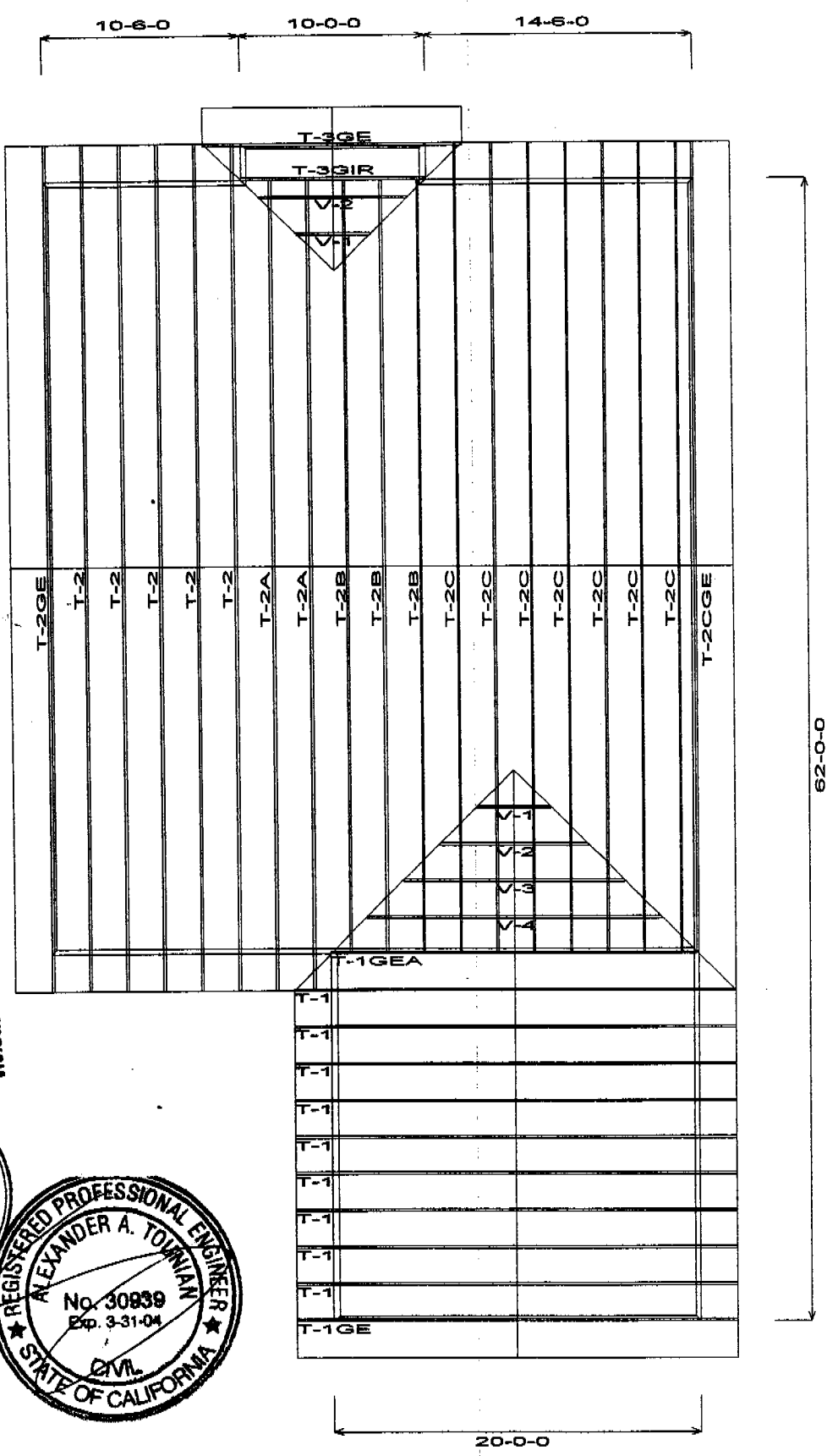
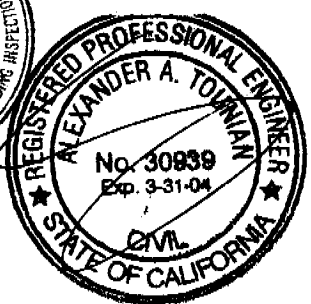
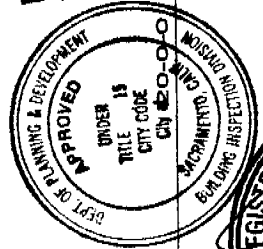
APP FEE	PAID

\_\_\_\_\_  
 Applicant signature Date

AGENCY	TOTAL HRS	TOTAL FEES
BLDG		
PW		
PLEASE PAY THIS AMOUNT		

B) 1/8/02  
 Approved  
 by Brad M.

This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division.  
 The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.



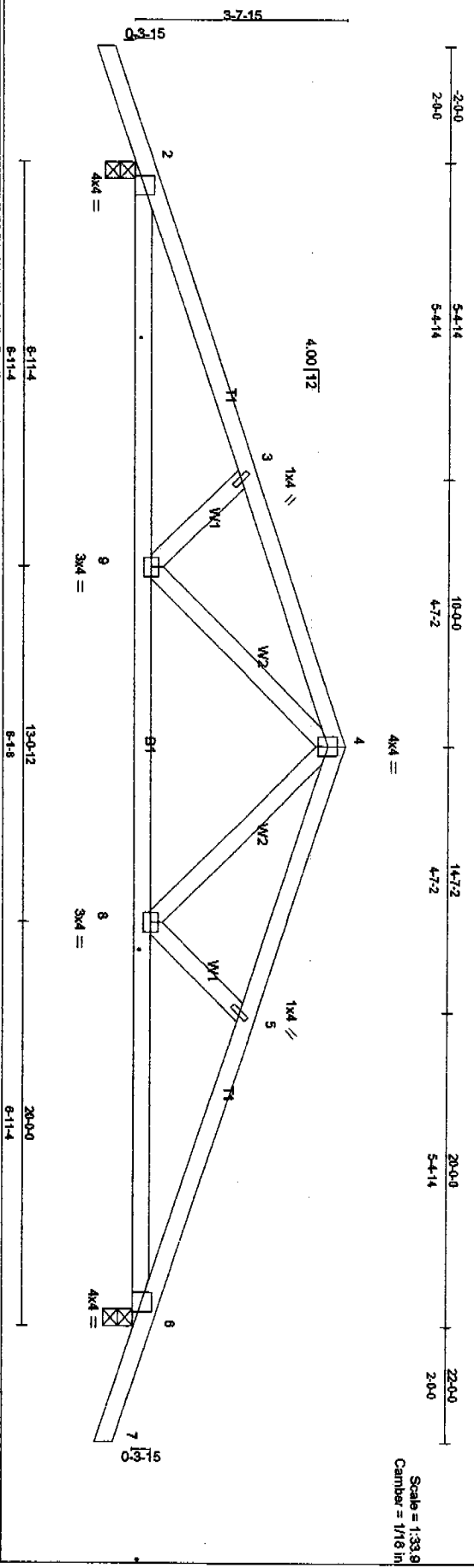
**MID VALLEY TRUSS INC**

408 E FREMONT ST  
 STOCKTON CA 95215  
 209 464 7358  
 209 463 0738

Name:  
 Address:  
 City:  
 State:  
 Phone:

Rodriguez Residence  
 Job:  
**Bd811**  
 File location: P:\MIDTR\0105-04\VL\Bd811\  
 Scale: 1 : 105 Date: 12/21/01 Drawn By: Chad

Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	T-1	FINK	9	1	(optional)
Mid Valley Truss, Inc.					
4.201 SRI s Nov 16 2000 Mittek Industries, Inc. Fri Dec 21 08:35:42 2001 Page 1					



LOADING (psf)	SPACING	2-0-0	CSI	TC	0.30	DEFL	In	(loc)	U/defl	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC	0.30	Vert(TL)	-0.07	6-6	> 999		MR20	1977144
TCDL 14.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.16	6-9	> 999			
BCDL 0.0	Rep Stress Incr	YES	WB	0.17	Horz(TL)	0.04	6	n/a			
BCDL 7.0	Code	UBC97/ANSI95	(Metric)		1st LC LL Min U/defl	= 360					

**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF No.2  
 WEBS 2 X 4 SPF Stud

**REACTIONS (lb/size)** 2=8580-3-8, 6=8580-3-8  
 Max Horiz 2=10(load case 3)

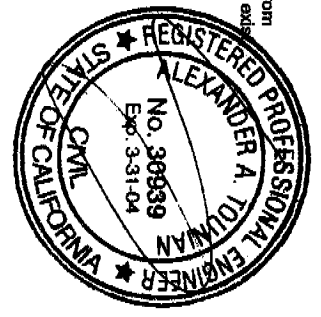
**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=37, 2-3=1851, 3-4=1438, 4-5=1438, 5-6=1851, 6-7=37  
 BOT CHORD 2-9=1510, 8-9=1053, 6-8=1510  
 WEBS 3-9=277, 4-9=401, 4-8=401, 5-8=277

**BRACING**  
 TOP CHORD Sheathed or 4-5-4 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

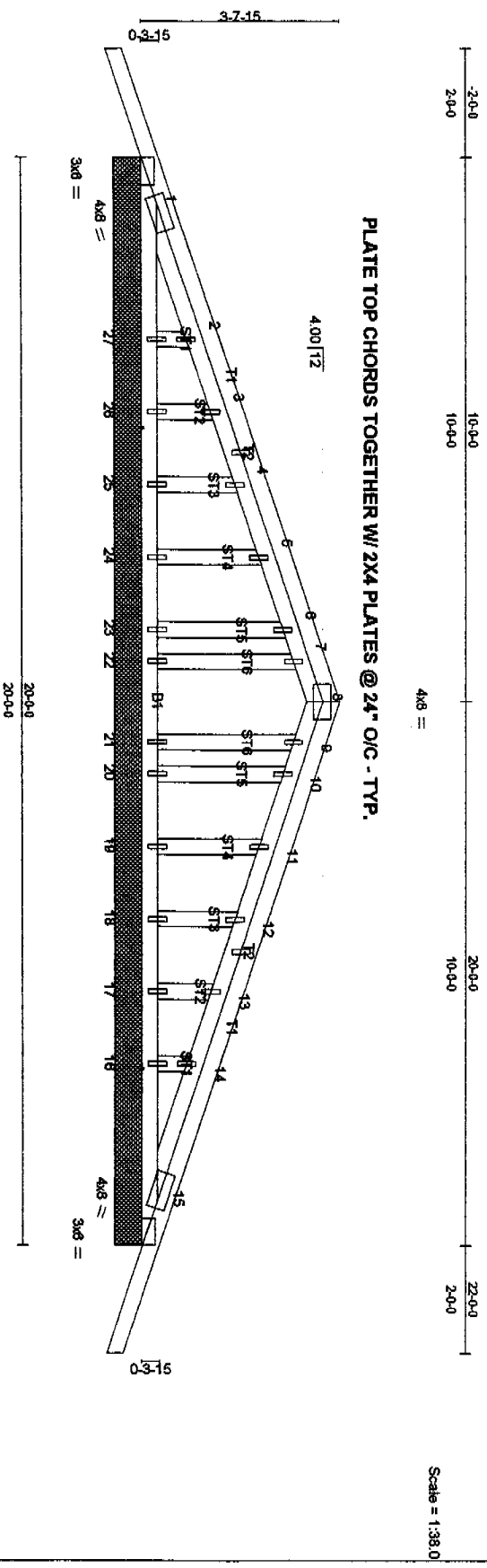
**NOTES**

- 1) This truss has been checked for unbalanced loading conditions.
- 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 nfd from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if end verticals or cantilevers exist they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DCL increase is 1.33, and the plate grip increase is 1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
- 4) This truss has been designed with ANSI/TPI 1-1995 criteria.

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	T-1GE	COMMON	1	1	(optional)
Mid Valley Truss, Inc.					4.201 SR1 s Nov 16 2000 MTEK Industries, Inc. Fri Dec 21 08:35:53 2001 Page 1



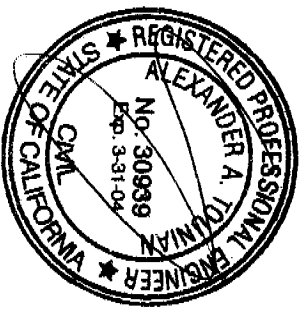
LOADING (psf)	SPACING	2-0-0	CS1	0.06	DEFL	In (occ)	Wdell	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC	0.06	Vert(LL)	n/a	n/a	MIZO	197/144
TCCL 14.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	n/a	n/a		
BCCL 0.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00	15		
BCDL 7.0	Code	UBC97/ANSI95	1st LC LL Min Wdell	= 360				Weight: 97 lb	

**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF No.2  
 OTHERS 2 X 4 SPF Stud

**REACTIONS (lb/size)**  
 1=78/20-0-0, 15=78/20-0-0, 22=78/20-0-0, 21=78/20-0-0, 23=66/20-0-0, 24=99/20-0-0, 25=107/20-0-0, 26=63/20-0-0, 27=188/20-0-0, 19=99/20-0-0, 18=107/20-0-0, 17=63/20-0-0, 16=188/20-0-0  
 Max Horiz 1=8(load case 3), 20=-1(load case 4)  
 Max Uplift 23=-1(load case 1), 15=78(load case 1), 22=78(load case 1), 21=78(load case 1), 23=66(load case 6), 24=100(load case 6), 25=107(load case 1), 26=63(load case 6), 27=188(load case 1)  
 Max Grav 1=78(load case 1), 15=78(load case 1), 22=23=7, 21=22=7, 19=20=7, 18=19=7, 16=17=7, 15=16=7  
 27=188(load case 1), 20=68(load case 7), 19=100(load case 7), 18=107(load case 1), 17=63(load case 7), 16=188(load case 1)

**FORCES (lb)** - First Load Case Only  
 TOP CHORD 1-2=18, 2-3=26, 3-4=18, 4-5=20, 5-6=20, 6-7=12, 7-8=21, 8-9=21, 9-10=12, 10-11=20, 11-12=20, 12-13=18, 13-14=26, 14-15=29  
 BOT CHORD 1-2=7, 2-3=7, 2-6=7, 2-5=7, 2-4=7, 2-3=7, 2-2=7, 2-1=7, 1-9=7, 1-8=7, 1-7=7, 1-6=7, 1-5=7  
 WEBS 7-22=62, 9-21=62, 6-23=54, 5-24=81, 4-25=85, 3-26=57, 2-27=139, 10-20=54, 11-19=81, 12-18=85, 13-17=57, 14-16=139

**NOTES**  
 1) This truss has been checked for unbalanced loading conditions.  
 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 mt from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33  
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MTEK "Standard Gable End Detail"  
 4) All plates are 1x4 M1120 unless otherwise indicated.  
 5) Gable requires continuous bottom chord bearing.  
 6) Gable studs spaced at 1-4-0 oc.  
 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.



Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	T-1GE	COMMON	1	1	(optional)

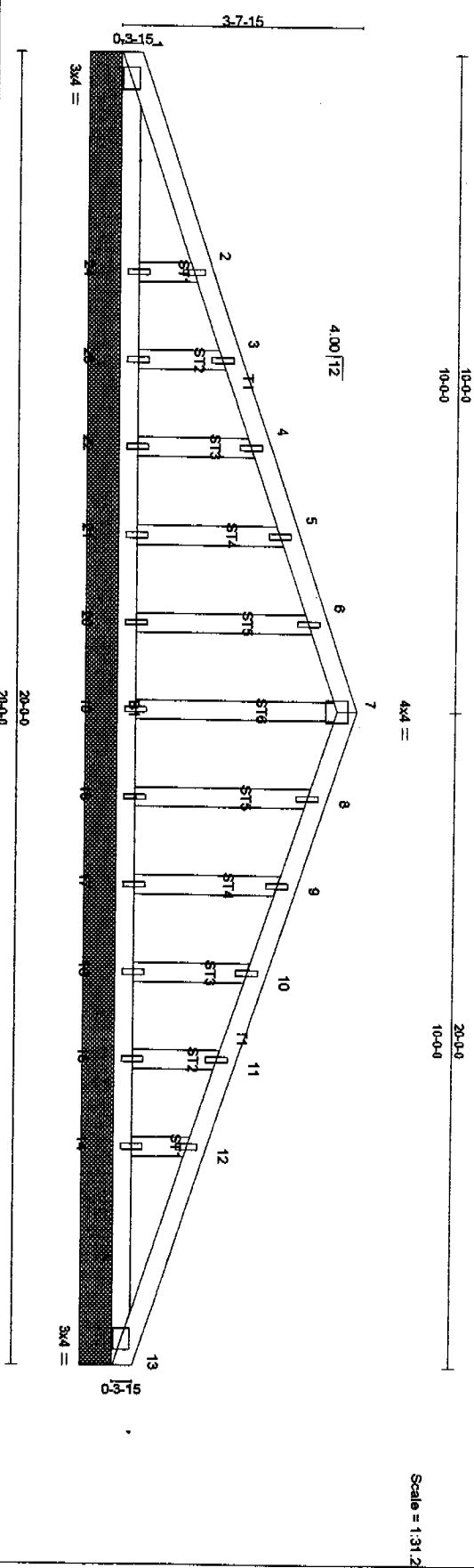
Mid Valley Truss, Inc. 4.201 SRT's Nov 16 2000 MATEK Industries, Inc. Fri Dec 21 08:35:55 2001 Page 2

**NOTES**

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 23 and 1 lb uplift at joint 20.
- 9) This truss has been designed with ANSIT/PI 1-1995 criteria.
- 10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Roofing Residence
BD811	T-1GEA	FINK	1	1	(optional)
Mid Valley Truss, Inc.					
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<b>LOADING (psf)</b>	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 16.0	Plates Increase 2-0-0	TC 0.11	Vert(L) n/a	M20	197/144
TCCL 14.0	Lumber Increase 1.25	BC 0.07	Vert(T) n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(T) 0.00		
BCDL 7.0	Code UBC97/ANSI95	1st L.C.L. Min Idell = 360	1st L.C.L. Min Idell = 360		
				Weight: 71 lb	

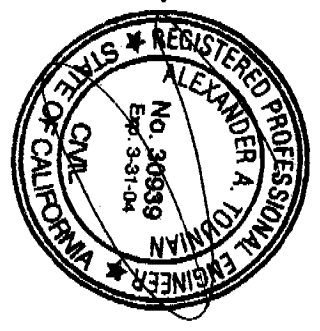
**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF No.2  
 OTHERS 2 X 4 SPF Stud

**BRACING**  
 TOP CHORD Sheathed or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS (lb/size)** 1=102/20-0-0, 13=102/20-0-0, 19=95/20-0-0, 20=100/20-0-0, 21=95/20-0-0, 22=116/20-0-0, 23=23/20-0-0, 24=258/20-0-0, 18=100/20-0-0, 17=95/20-0-0, 16=118/20-0-0, 15=23/20-0-0, 14=258/20-0-0  
 Max Horiz 1=8(load case 3)  
 Max Grav 1=102(load case 1), 13=102(load case 1), 19=95(load case 1), 20=101(load case 6), 21=95(load case 6), 22=116(load case 1), 23=23(load case 6), 24=258(load case 6), 18=101(load case 7), 17=95(load case 7), 16=116(load case 1), 15=23(load case 7), 14=258(load case 7)

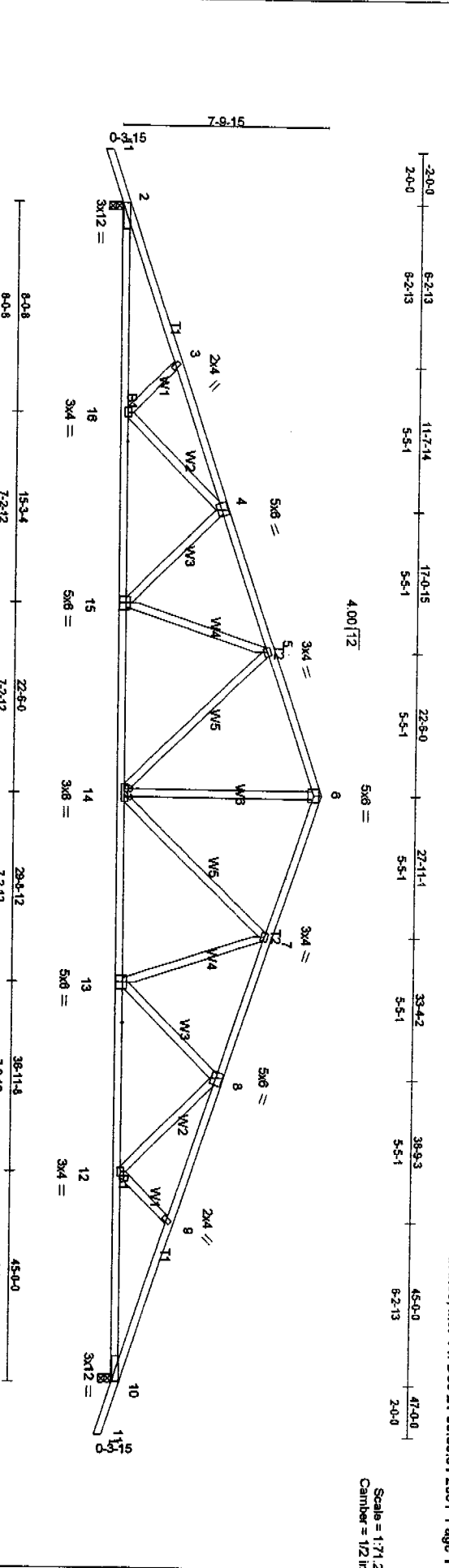
**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=30, 2-3=30, 3-4=11, 4-5=18, 5-6=8, 6-7=8, 7-8=17, 8-9=17, 9-10=18, 10-11=12, 11-12=30, 12-13=34  
 BOT CHORD 1-2=4, 2-3=4, 23-24=4, 21-22=4, 20-21=4, 19-20=4, 18-19=4, 17-18=4, 16-17=4, 15-16=4, 14-15=4, 13-14=4  
 WEBS 7-19=17, 8-20=80, 5-21=78, 4-22=90, 3-23=31, 2-24=189, 8-18=80, 9-17=78, 10-16=90, 11-15=31, 12-14=189

- NOTES**
- 1) This truss has been checked for unbalanced loading conditions.
  - 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 mi from hurricane coastline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if and verticals or cantilevers exist, they are exposed to wind. If porch exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MITek Standard Gable End Detail
  - 4) All plates are 1x4 Mill20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Gable studs spaced at 1-4-0 oc.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
  - 8) This truss has been designed with ANS/ITP1-1-1995 criteria.
- LOAD CASE(S)** Standard





Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	T-2	DBL MOD. QUEEN	5	1	
Mid Valley Truss, Inc.					
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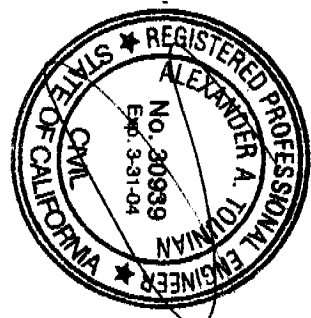
LOADING (psf)	SPACING	CSL	DEFL	PLATES	GRIP
TGCL 16.0	Plates Increase 1.25	TC 0.64	Vert(L) -0.35	M120	197/144
TGDL 14.0	Lumber Increase 1.25	BC 0.74	Vert(R) -0.82		
BCLL 0.0	Rep Stress Incr YES	WB 0.92	Horiz(TL) 0.24		
BCDL 7.0	Code UBC97/ANSI95	(Metric)	1st LCL Min Wdefl = 360	Weight: 178 lb	

**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF 1650F 1.5E  
 WEBS 2 X 4 SPF Stud "Except"  
 W5 2 X 4 SPF No.2, W6 2 X 4 SPF No.2, W5 2 X 4 SPF No.2

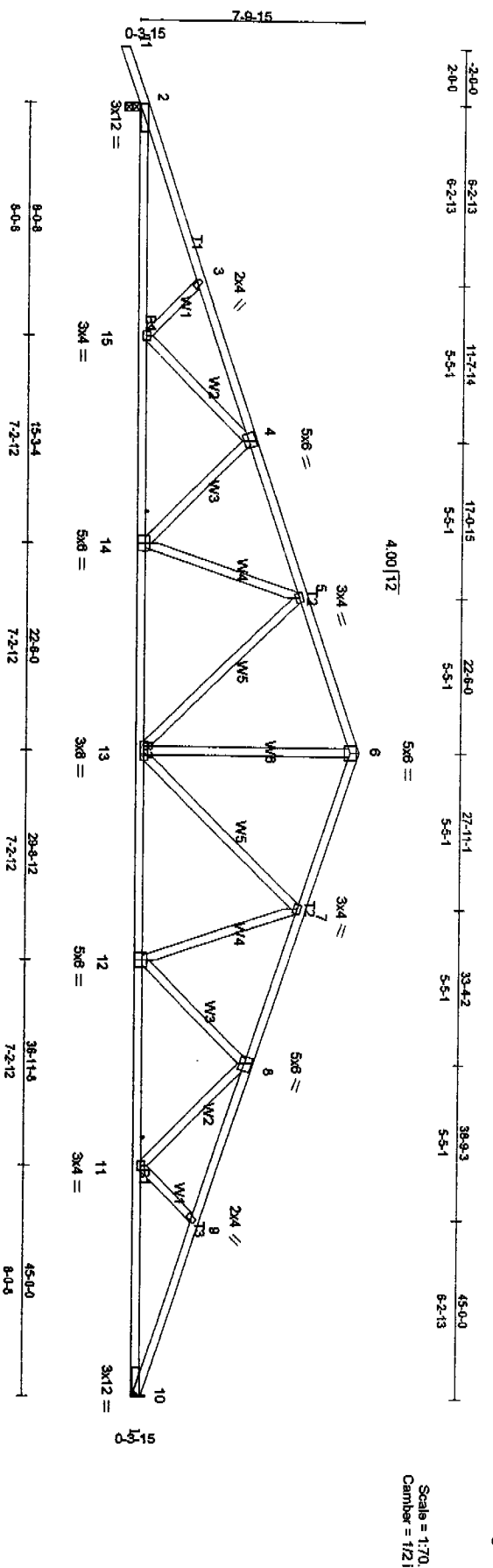
**REACTIONS (lbs/size)** 2=1783/0-3-8, 10=1783/0-3-8  
 Max Horiz 2=20(load case 3)

**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=37, 2-3=4402, 3-4=4163, 4-5=3430, 5-6=2650, 6-7=2650, 7-8=3430, 8-9=4163, 9-10=4402, 10-11=37  
 BOT CHORD 2-16=4104, 15-16=3600, 14-15=3037, 13-14=3037, 12-13=3600, 10-12=4104  
 WEBS 3-16=299, 4-16=442, 4-15=583, 5-15=557, 5-14=929, 6-14=1308, 7-14=929, 7-13=557, 8-13=583, 8-12=442, 9-12=299

**NOTES**  
 1) This truss has been checked for unbalanced loading conditions.  
 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 ml from hurricane coastline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The Lumber DCL increase is 1.33, and the plate gfp increase is 1.33  
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.  
 4) This truss has been designed with ANSIT/PI 1-1995 criteria.



Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	T-2A	DBL MOD. QUEEN	2	1	(optional)
Mild Valley Truss, Inc.					
4.201 SR1 s Nov 16 2000 MTrak Industries, Inc. Fri Dec 21 08:36:09 2001 Page 1					



LOADING (qsf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	Plates Increase 2-0-0	TC 0.71	In (log) 0.35	M120	197/144
TCDL 14.0	Lumber Increase 1.25	BC 0.82	Vert(TL) 13		
BCLL 0.0	Rep Stress Incr YES	WB 0.93	Horz(TL) 0.25		
BCDL 7.0	Code UBC97/ANSI95	(Matrix)	1st LC LL Min Idell = 360	Weight: 176 lb	

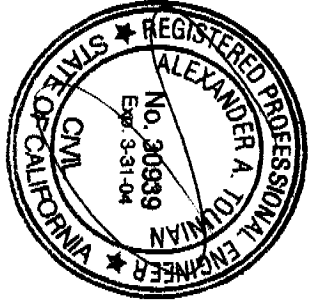
**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF 1650F 1.5E  
 WEBS 2 X 4 SPF Stud Except\*  
 W5 2 X 4 SPF No.2, W6 2 X 4 SPF No.2, W5 2 X 4 SPF No.2

**REACTIONS (lb/size)** 2=1788/0-3-8, 10=1651/Mechanical  
 Max Horz 2=42(load case 3)

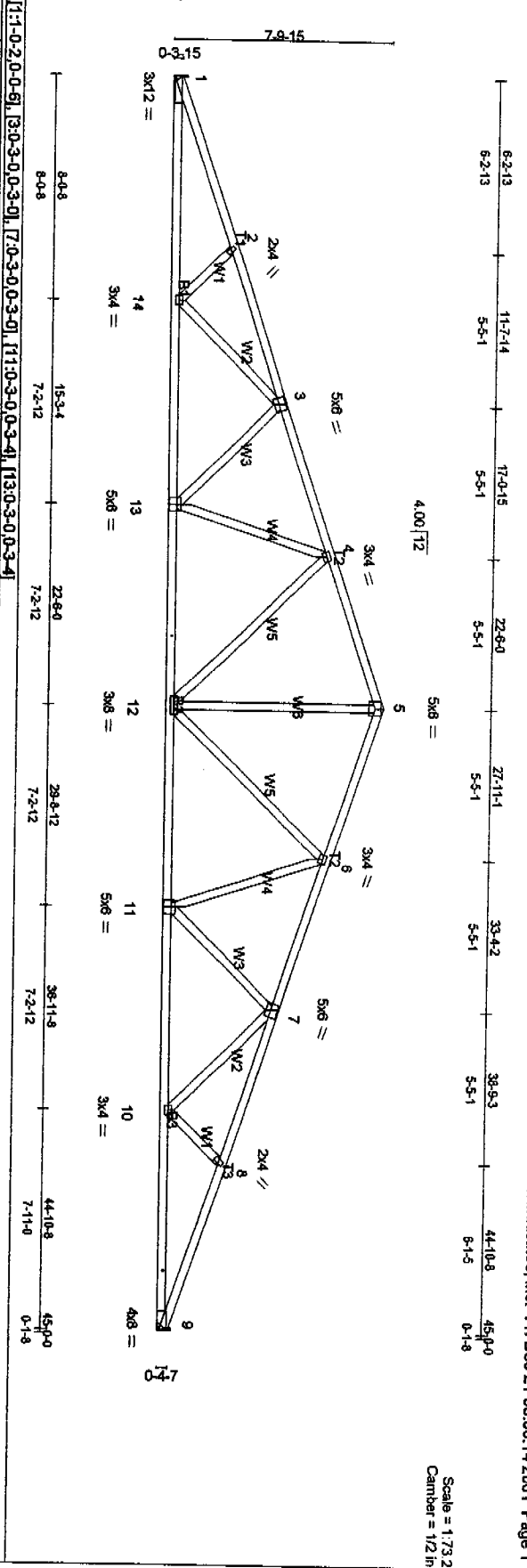
**FORCES (lb)** - First Load Case Only  
 TOP CHORD 1-2=37, 2-3=4411, 3-4=4172, 4-5=3440, 5-6=2660, 6-7=2660, 7-8=3448, 8-9=4219, 9-10=4466  
 BOT CHORD 2-15=4112, 14-15=3609, 13-14=3046, 12-13=3052, 11-12=3627, 10-11=4170  
 WEBS 3-15=298, 4-15=442, 4-14=583, 5-14=556, 5-13=829, 6-13=1314, 7-13=837, 7-12=564, 8-12=597, 8-11=480, 9-11=319

**NOTES**

- This truss has been checked for unbalanced loading conditions.
- This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 mi from hurricane coastline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DCL increase is 1.33, and the plate grip increase is 1.33
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
- Refer to girder(s) for truss to truss connections.
- This truss has been designed with ANSIT/PI 1-1995 criteria.



Job	Truss	Truss Type	Qty	Ply	Rodriguez Resistance
BD811	T-2B	DBL. MOD. QUEEN	3	1	
Mid Valley Truss, Inc.					(optional)
					4.201 SRT's Nov 16 2000 MAT'ek Industries, Inc. Fri Dec 21 08:36:14 2001 Page 1



LOADING (psf)	SPACING	CSJ	DEFL	PLATES	GRIP
TCLL 16.0	Plates Increase 2-0-0	TC 0.71	Vert(TL) -0.35	M120	197/144
TCOL 14.0	Lumber Increase 1.25	BC 0.82	Vert(TL) -0.82		
BCLL 0.0	Rep Stress Incr YES	WB 0.93	Horz(TL) 0.25		
BCOL 7.0	Code UBC97/ANSI95	(Metric)	1st LC LL Min Vdefl = 360	Weight: 173 lb	

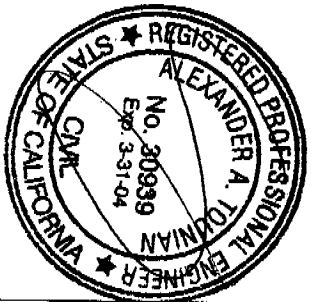
**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF 1650F 1.5E  
 WEBS 2 X 4 SPF Stud 'except'  
 W5 2 X 4 SPF No.2, W6 2 X 4 SPF No.2, W5 2 X 4 SPF No.2

**REACTIONS (lb/size)** 1=1650/Mechanical, 9=1650/Mechanical  
 Max Horiz 1=-19(load case 4)

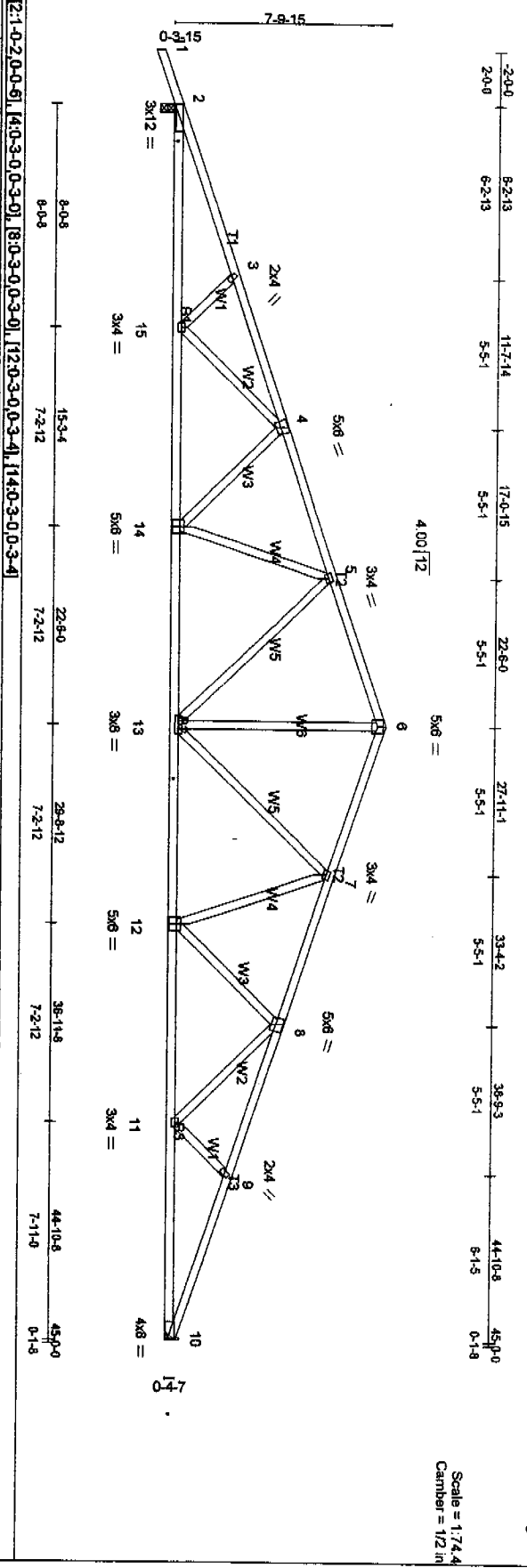
**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=-4462, 2-3=-4214, 3-4=-3443, 4-5=-2655, 5-6=-2655, 6-7=-3429, 7-8=-4160, 8-9=-4392  
 BOT CHORD 1-14=4165, 13-14=3622, 12-13=3047, 11-12=3039, 10-11=3597, 9-10=4090  
 WEBS 2-14=-319, 3-14=480, 3-13=-597, 4-12=-837, 5-12=1312, 6-12=-825, 6-11=550, 7-11=-678, 7-10=443, 8-10=-283

**NOTES**  
 1) This truss has been checked for unbalanced loading conditions.  
 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 mi from hurricane coastline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33  
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.  
 4) Refer to girder(s) for truss to truss connections.  
 5) This truss has been designed with ANSIT/TP1 1-1995 criteria.

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	City	Ply	Rodriguez Residence
BD811	T-2C	DBL. MOD. QUEEN	7	1	
Mild Valley Truss, Inc.					(Optional) 4.201 SRI s Nov 16 2000 Milltek Industries, Inc. Fri Dec 21 08:36:18 2001 Page 1



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	Plates Increase 2-0-0	TC 0.68	Vert(L) -0.34	M120	197/144
TCDL 14.0	Lumber Increase 1.25	BC 0.80	Vert(TL) -0.81		
BCLL 0.0	Rep Stress Incr YES	WB 0.92	Horz(TL) 0.24		
BCDL 7.0	Code UBC97/ANSI95	(Matrix)	1st LC LL Min Udefl = 360	Weight: 176 lb	

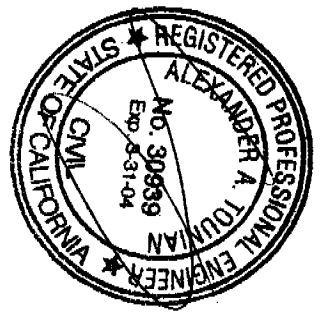
**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF 1650F 1.5E  
 WEBS 2 X 4 SPF Stud "Except"  
 W5 2 X 4 SPF No.2, W6 2 X 4 SPF No.2, W5 2 X 4 SPF No.2

**REACTIONS (lbsize)** 2=1781/0-3-8, 10=1646/Mechanical  
 Max Horiz 2=42(load case 3)

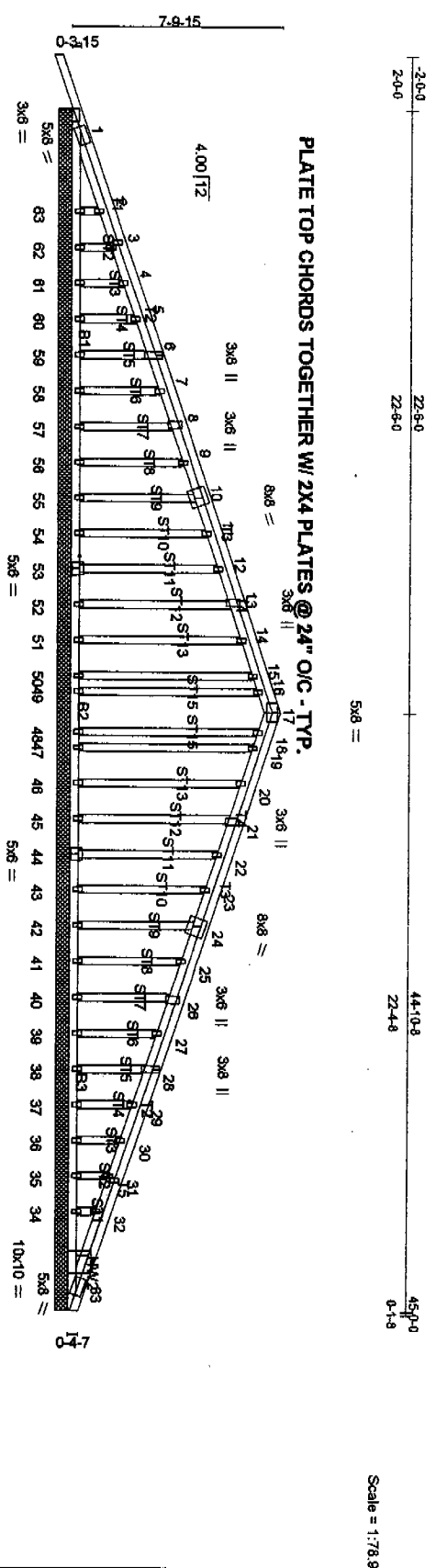
**FORCES (lb)** - First Load Case Only  
 TOP CHORD 1-2=37, 2-3=4397, 3-4=4158, 4-5=3426, 5-6=2645, 6-7=2645, 7-8=3420, 8-9=4151, 9-10=4383  
 BOT CHORD 2-15=4099, 14-15=3596, 13-14=3033, 12-13=3030, 11-12=3588, 10-11=4082  
 WEBS 3-15=299, 4-15=442, 4-14=583, 5-14=556, 5-13=829, 6-13=1305, 7-13=825, 7-12=550, 8-12=579, 8-11=443, 9-11=284

**NOTES**  
 1) This truss has been checked for unbalanced loading conditions.  
 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 mi from hurricane coastline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33  
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.  
 4) Refer to girder(s) for truss to truss connections.  
 5) This truss has been designed with ANSITPP1-1995 criteria.

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	T-2CGGE	DBL. MOD. QUEEN	1	1	(optional)
Mid Valley Truss, Inc.					
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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	VERT(L)	VERT(R)	HORIZ(TL)	HORIZ(BR)	PLATES	GRIP
TCCL 16.0	Plates Increase	1.25	TC 0.09	in (loc)	n/a	n/a	n/a	n/a	M120	197/144
TCDL 14.0	Lumber Increase	1.25	BC 0.06							
BCIL 0.0	Rep Stress Incr	YES	WB 0.07							
BCDL 7.0	Code	UBC97/ANSI95	(Matrix)	1st LC LL Min Vdefl = 360					Weight: 294 lb	

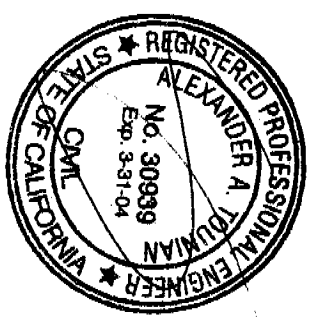
**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF No.2  
 OTHERS 2 X 4 SPF Stud  
 WEDGE  
 Right: 2 X 6 SPF No.2

**BRACING**  
 TOP CHORD . Except:  
 3 Rows at 1/4 pts -1-17, 17-33  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oe bracing.

**REACTIONS (lbs/size)**  
 1=92/44-10-8, 53=99/44-10-8, 33=92/44-10-8, 49=77/44-10-8, 48=77/44-10-8, 50=69/44-10-8, 51=99/44-10-8, 52=99/44-10-8, 55=99/44-10-8, 56=99/44-10-8, 57=99/44-10-8, 58=99/44-10-8, 59=99/44-10-8, 60=99/44-10-8, 61=112/44-10-8, 62=112/44-10-8, 63=228/44-10-8, 47=99/44-10-8, 46=99/44-10-8, 45=99/44-10-8, 44=99/44-10-8, 43=99/44-10-8, 42=99/44-10-8, 41=99/44-10-8, 40=99/44-10-8, 39=99/44-10-8, 38=99/44-10-8, 37=99/44-10-8, 36=112/44-10-8, 35=41/44-10-8, 34=228/44-10-8

**Max Horiz 1=17/(load case 3)**  
**Max Grav 1=92/(load case 1), 53=99/(load case 1), 49=77/(load case 1), 48=77/(load case 1), 50=69/(load case 6), 51=100/(load case 6), 52=99/(load case 1), 54=99/(load case 6), 55=99/(load case 1), 56=99/(load case 1), 57=99/(load case 6), 58=99/(load case 1), 59=99/(load case 6), 60=99/(load case 1), 61=112/(load case 6), 62=41/(load case 1), 63=228/(load case 6), 47=99/(load case 7), 46=100/(load case 7), 45=99/(load case 1), 44=99/(load case 1), 43=99/(load case 1), 42=99/(load case 1), 41=99/(load case 1), 40=99/(load case 7), 39=99/(load case 1), 38=99/(load case 7), 37=99/(load case 1), 36=112/(load case 7), 35=41/(load case 1), 34=228/(load case 7)**

**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=25, 2-3=28, 3-4=9, 4-5=18, 5-6=7, 6-7=7, 7-8=7, 8-9=7, 9-10=7, 10-11=7, 11-12=7, 12-13=7, 13-14=7, 14-15=7, 15-16=11, 16-17=19, 17-18=19, 18-19=11, 19-20=18, 20-21=18, 21-22=18, 22-23=18, 23-24=18, 24-25=18, 25-26=18, 26-27=18, 27-28=18, 28-29=18, 29-30=18, 30-31=13, 31-32=28, 32-33=31  
 BOT CHORD 1-6=3=5, 62-63=5, 61-62=5, 60-61=5, 59-60=5, 58-59=5, 57-58=5, 56-57=5, 55-56=5, 54-55=5, 53-54=5, 52-53=5, 51-52=5, 50-51=5, 49-50=5, 48-49=5, 47-48=5, 46-47=5, 45-46=5, 44-45=5, 43-44=5, 42-43=5, 41-42=5, 40-41=5, 39-40=5, 38-39=5, 37-38=5, 36-37=5, 35-36=5, 34-35=5, 33-34=5  
 WEBS 16-48=61, 18-48=61, 15-50=57, 14-51=80, 13-52=80, 11-54=80, 9-56=80, 8-57=80, 7-58=80, 6-59=80, 5-60=79, 4-61=88, 3-62=43, 2-63=168, 19-47=57, 20-46=80, 21-45=81, 22-44=80, 23-43=80, 24-42=80, 25-41=80, 26-40=80, 27-39=80, 28-38=80, 29-37=79, 30-36=88, 31-35=43, 32-34=168



Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	T-2CGE	DBL MOD. QUEEN	1	1	(optional)

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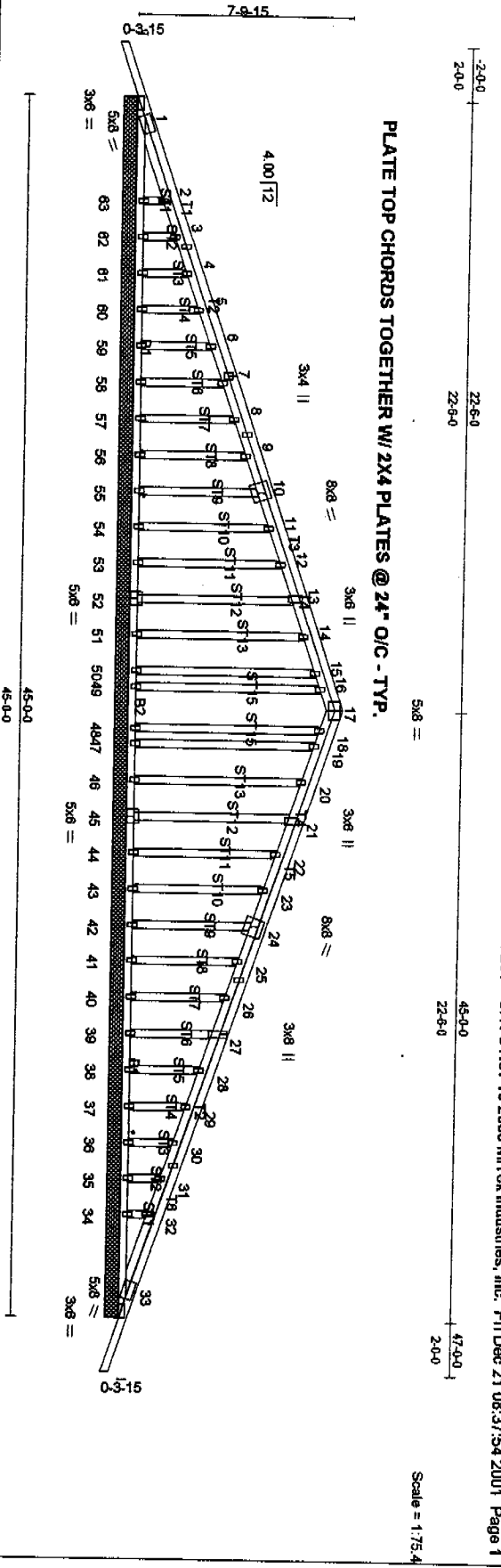
Mid Valley Truss, Inc.

**NOTES**

- 1) This truss has been checked for unbalanced loading conditions.
- 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 mi from hurricane coastline, on an occupancy category 1, condition 1 enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DCL increase is 1.33, and the plate grip increase is 1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MITek "Standard Gable End Detail"
- 4) All plates are 2x4 M120 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1'-4" oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
- 8) This truss has been designed with ANSI/TP1 1-1995 criteria.
- 9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	T-2GE	COMMON	1	1	
Mild Valley Truss, Inc.					4.201 SRI s Nov 16 2000 Mittek Industries, Inc. Fri Dec 21 08:37:54 2001 Page 1



LOADING (psf)	SPACING	CSI	DEFI	PLATES	GRIP
TCLL 16.0	Plates Increase 2-0-0	TC 0.09	Vert(L) n/a	MIL20	197/44
TCDL 14.0	Lumber Increase 1.25	BC 0.06	Vert(TL) n/a		
BCDL 0.0	Rep Stress Incr YES	WB 0.07	Horz(TL) 0.00		
BCDL 7.0	Code UBC97/ANSI95	(Metric)	1st LC LL Min Vdell = 360		
LUMBER				Weight: 294 lb	

TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF No.2  
 OTHERS 2 X 4 SPF Stud

REACTIONS (lbs/size) 1=92/45-0-0, 52=99/45-0-0, 49=77/45-0-0, 48=77/45-0-0, 50=69/45-0-0, 51=99/45-0-0, 53=99/45-0-0, 54=99/45-0-0, 55=99/45-0-0, 56=99/45-0-0, 57=99/45-0-0, 58=99/45-0-0, 59=99/45-0-0, 60=96/45-0-0, 61=112/45-0-0, 62=114/45-0-0, 63=228/45-0-0, 47=69/45-0-0, 46=99/45-0-0, 44=99/45-0-0, 42=99/45-0-0, 41=99/45-0-0, 40=99/45-0-0, 39=99/45-0-0, 38=99/45-0-0, 36=112/45-0-0, 35=41/45-0-0, 34=228/45-0-0, 33=92/45-0-0.

BRACING  
 TOP CHORD Except:  
 3 Rows at 1/4 pts 1-17, 17-33  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES (lb) - First Load Case Only  
 TOP CHORD 1-2=25, 2-3=28, 3-4=9, 4-5=18, 5-6=7, 6-7=7, 7-8=7, 8-9=7, 9-10=7, 10-11=7, 11-12=7, 12-13=7, 13-14=7, 14-15=7, 15-16=11, 16-17=19, 17-18=19, 18-19=11, 19-20=18, 20-21=18, 21-22=18, 22-23=18, 23-24=18, 24-25=18, 25-26=18, 26-27=18, 27-28=18, 28-29=18, 29-30=18, 30-31=13, 31-32=28, 32-33=31

NOTES  
 1) This truss has been checked for unbalanced loading conditions.  
 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 mt from hurricane oceanline, on an occupancy category 1, condition 1 enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33.



Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence (optional)
BD611	T-2GE	COMMON	1	1	

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Mid Valley Truss, Inc.

- NOTES**
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MITek "Standard Gable End Detail"
  - 4) All plates are 2x4 MIT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Gable studs spaced at 1'-4" o.c.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
  - 8) This truss has been designed with ANS/TFI 1-1395 criteria.
  - 9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	T-3GE	KINGPOST	1	1	
Mild Valley Truss, Inc.					(optional) 4.201 SRT's Nov 16 2000 MITek Industries, Inc. Fri Dec 21 08:38:25 2001 Page 1

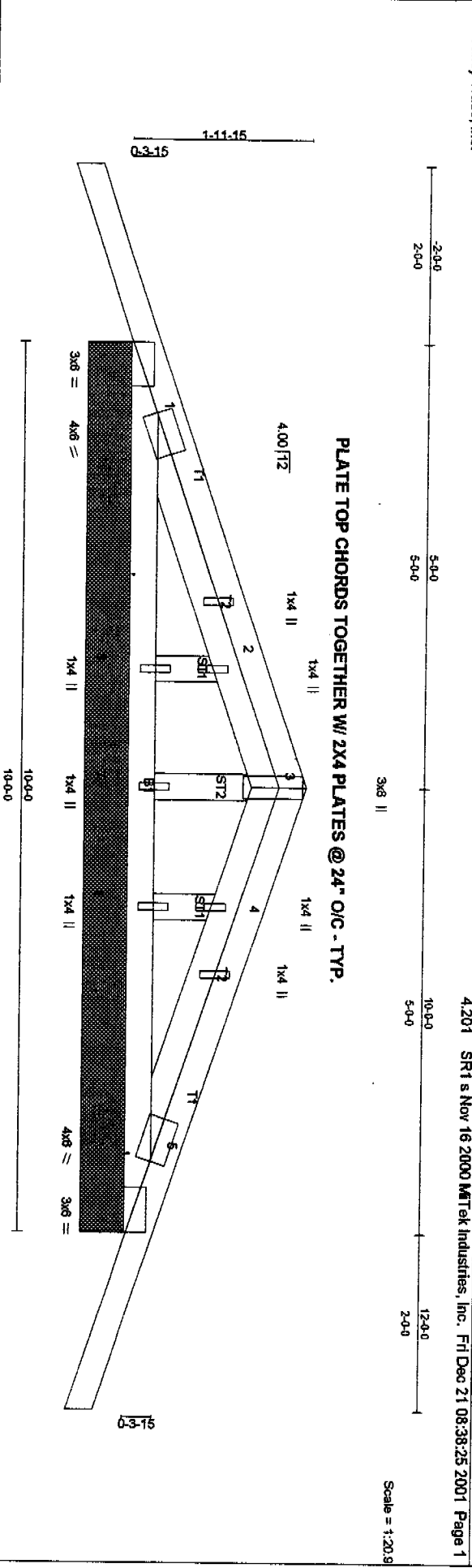


Plate Offsets (X,Y): [1:0-0-4,0-2-0], [1:0-3-12,Edge], [5:0-0-4,0-2-0], [5:0-3-12,Edge]

LOADING (psf)	SPACING	CSF	DEFL.	PLATES	GRIP
TCL 16.0	Plates Increase 2-0-0	TC 0.08	Vert(L) n/a	M120	1977/44
TCDL 14.0	Lumber Increase 1.25	BC 0.05	Vert(TL) n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(TL) 0.00		
BCDL 7.0	Code UBC97/ANSI95	(Matrix)	1st LC LL Min W/dell = 360		

**LUMBER**  
 TOP CHORD 2 X 4 SPF No. 2  
 BOT CHORD 2 X 4 SPF No. 2  
 OTHERS 2 X 4 SPF Stud

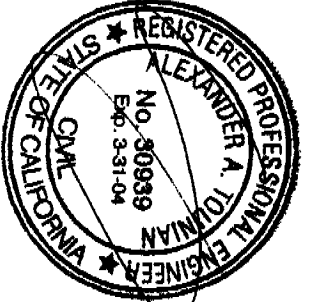
**BRACING**  
 TOP CHORD  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS (ksize)** 1=85/10-0-0, 5=85/10-0-0, 7=-1/10-0-0, 8=224/10-0-0, 9=224/10-0-0  
 Max Horiz 1=3(load case 3)  
 Max Uplift 7=-2(load case 2)  
 Max Grav 1=85(load case 6), 5=85(load case 7), 7=13(load case 4), 8=224(load case 1), 9=224(load case 1)

**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=29, 2-3=23, 3-4=23, 4-5=25  
 BOT CHORD 1-8=0, 7-8=0, 6-7=0, 5-6=0  
 WEBS 3-7=-16, 2-8=-164, 4-6=-164

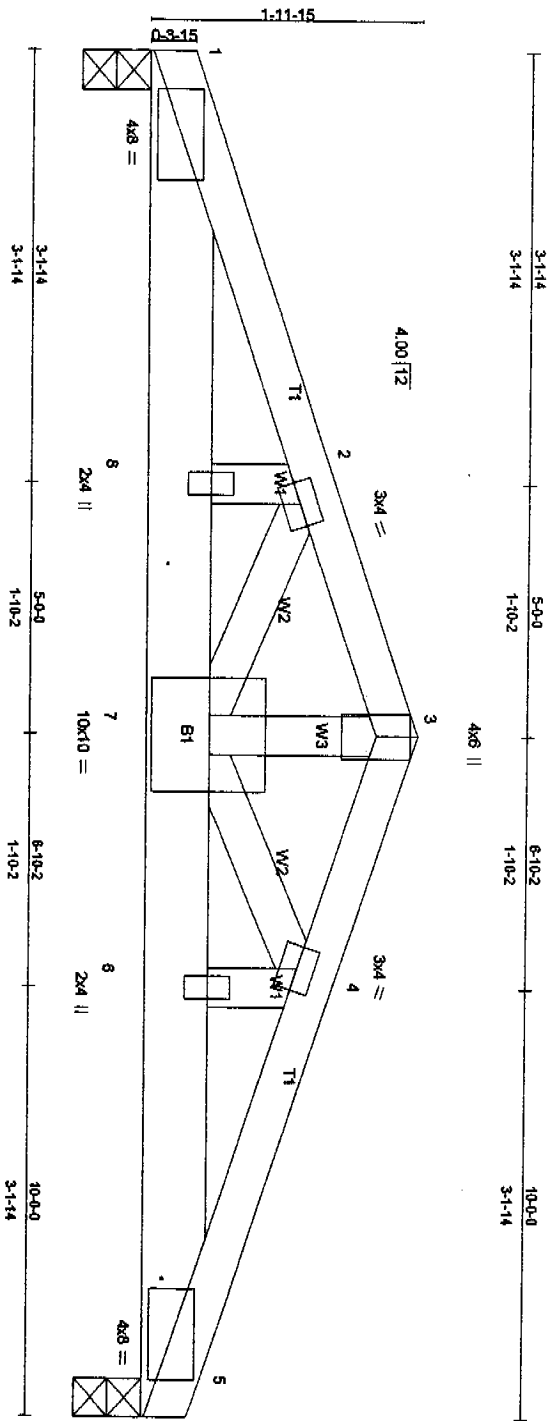
**NOTES**  
 1) This truss has been checked for unbalanced loading conditions.  
 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 mi from hurricane oceanline, on an occupancy category 1, condition 1 enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33  
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MITek "Standard Gable End Detail"  
 4) Gable requires continuous bottom chord bearing.  
 5) Gable studs spaced at 1-4-0 oc.  
 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.  
 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 7.  
 8) This truss has been designed with ANSI/TP-1-1995 criteria.  
 9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	T-3GE	KINGPOST	1	1	(optional)
Mid Valley Truss, Inc.					
LOAD CASE(S) Standard					

Job	Truss	Truss Type	City	Ply	Rodriguez Residence
BD811	T-3GIR	HOWE	1	2	
M&D Valley Truss, Inc.					(Optional) 4.201 SRT s Nov 16 2000 MITek Industries, Inc. Fri Dec 21 08:36:45 2001 Page 1



Scale = 1/16" = 1/16 in  
Camber = 1/16 in

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	In (occ)	Udell	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	T/C	Vert(UL)	-0.07	7	MIL/20	197/144
TCDL 14.0	Lumber Increase	1.25	BC	Vert(TL)	-0.17	7		
BCLL 0.0	Rep Stress Incr	NO	WB	Horz(TL)	0.04	5		
BCDL 7.0	Code	UBC97/ANSI95	(Metric)	1st LCLL Min Udell	= 360	n/a		Weight: 74 lb

**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 6 SPF 1650F 1.5E  
 WEBS 2 X 4 SPF Stud

**BRACING**  
 TOP CHORD Sheathed or 3-10-0 oc purflins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS (lbs/ft)** 1=4105/0-3-8, 5=4105/0-3-8  
 Max Horiz 1=4(load case 3)

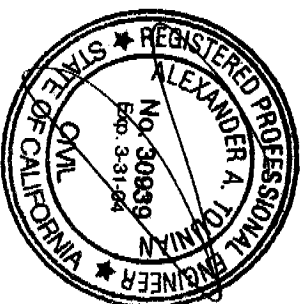
**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=-8377, 2-3=-6720, 3-4=-6720, 4-5=-8377  
 BOT CHORD 1-8=7921, 7-8=7921, 6-7=7921, 5-6=7921  
 WEBS 2-8=1353, 3-7=3841, 4-6=1353, 2-7=-1723, 4-7=-1723

**NOTES**

- 1) This truss has been checked for unbalanced loading conditions.
- 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 mi from hurricane coastline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-8, UBC-97.
- 4) This truss has been designed together with ANS/TP1 1-1995 criteria.
- 5) 2-ply truss to be connected together with 10d Common(148x3") Nails as follows:  
 Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2 X 6 - 2 rows at 0-6-0 oc.  
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.

**LOAD CASE(S)** Standard

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	T-3GIR	HOWE	1	2	(optional)

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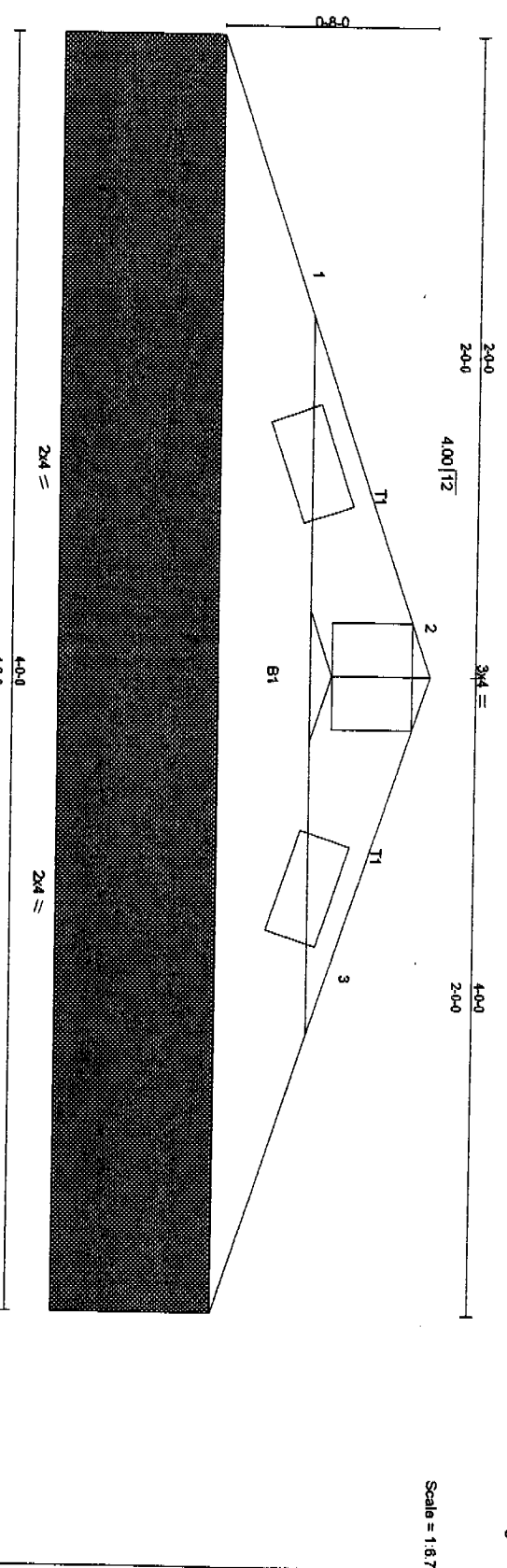
LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (p/l)

Vert: 1-5=-785.6, 1-3=-60.0, 3-5=-60.0

Mid Valley Truss, Inc.

Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	V1	ROOF TRUSS	2	1	
M&V Valley Truss, Inc.					(optional)
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<b>LOADING (psf)</b>	<b>SPACING</b>	<b>CSI</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TOLL 16.0	Plate Increase 2-0-0	TC 0.02	Vert(L) n/a	M&Z0	197/144
TCOL 14.0	Lumber Increase 1.25	BC 0.05	Vert(TL) n/a		
BOLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00		
BCDL 7.0	Code UBC97/ANSI95	(Metric)	1st LC LL Min Vdefl = 360		
				Weight: 7 lb	

**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF No.2

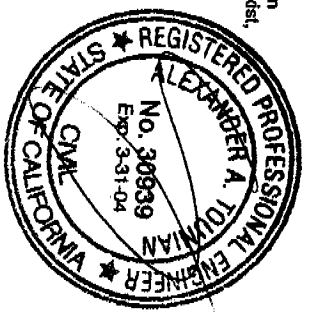
**REACTIONS (lbsize)** 1=82/4-0-0, 3=82/4-0-0  
 Max Horz 1=-1 (load case 4)

**FORCES (lb)** - First Load Case Only  
 TOP CHORD 1-2=-113, 2-3=-113  
 BOT CHORD 1-3=99

**BRACING**  
 TOP CHORD Sheathed or 4-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

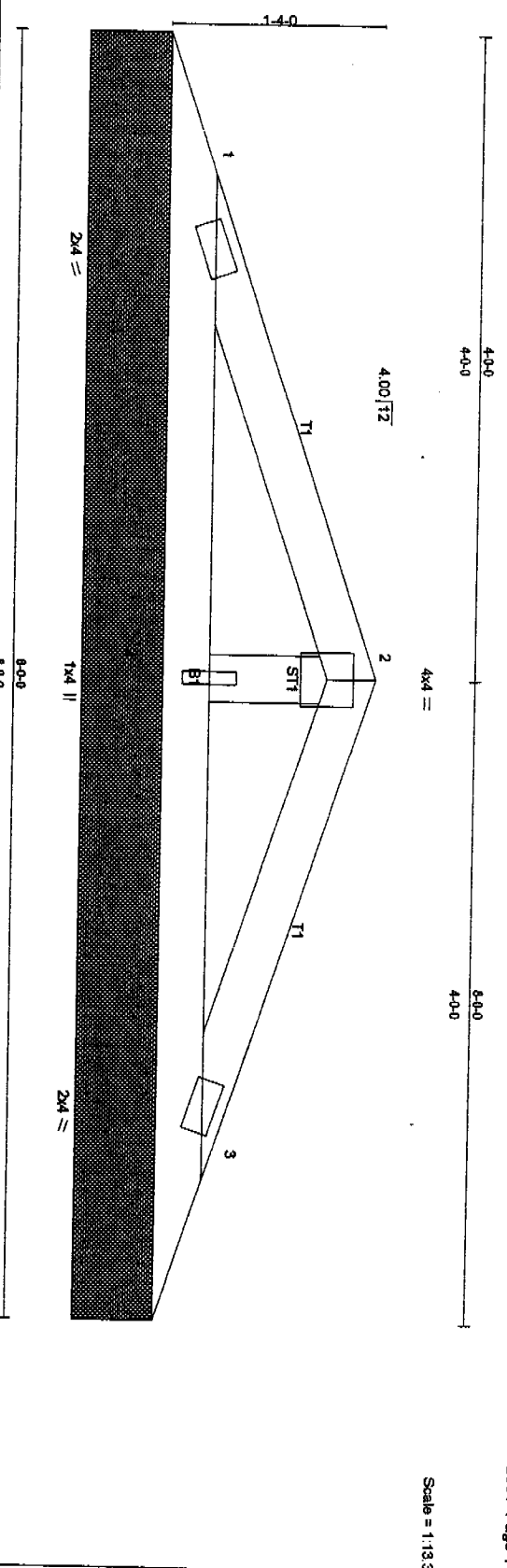
**NOTES**

- 1) This truss has been checked for unbalanced loading conditions.
- 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load. 100 mi from hurricane coastline, on an occupancy category 1, condition 1 enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
- 5) This truss has been designed with ANSI/TPI 1-1995 criteria.



LOAD CASE(S) Standard

Job	Truss	Truss Type	City	Ply	Rodriguez Residence
BD811	V2	ROOF TRUSS	2	1	(optional)
Mid Valley Truss, Inc.					
4.201 SRT s Nov 16 2000 MITek Industries, Inc. Fri Dec 21 08:36:55 2001 Page 1					



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	Plates Increase 2-0-0	TC 0.15	Vert(L) n/a	M120	197/144
TCOL 14.0	Lumber Increase 1.25	BC 0.09	Vert(T) n/a		
BCOL 0.0	Rep Stress Incr YES	WB 0.03	Horz(T) 0.00		
BCOL 7.0	Code UBC97/ANSI95	(Aerily)	1st LC LL Min / defl = 360		
Weight: 17 lb					

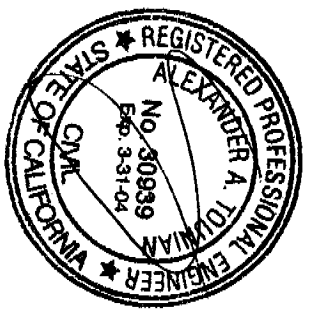
**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF No.2  
 OTHERS 2 X 4 SPF Stud

**REACTIONS (lb/size)** 1=113/8-0-0, 3=113/8-0-0, 4=233/8-0-0  
 Max Horiz 1=3(load case 4)

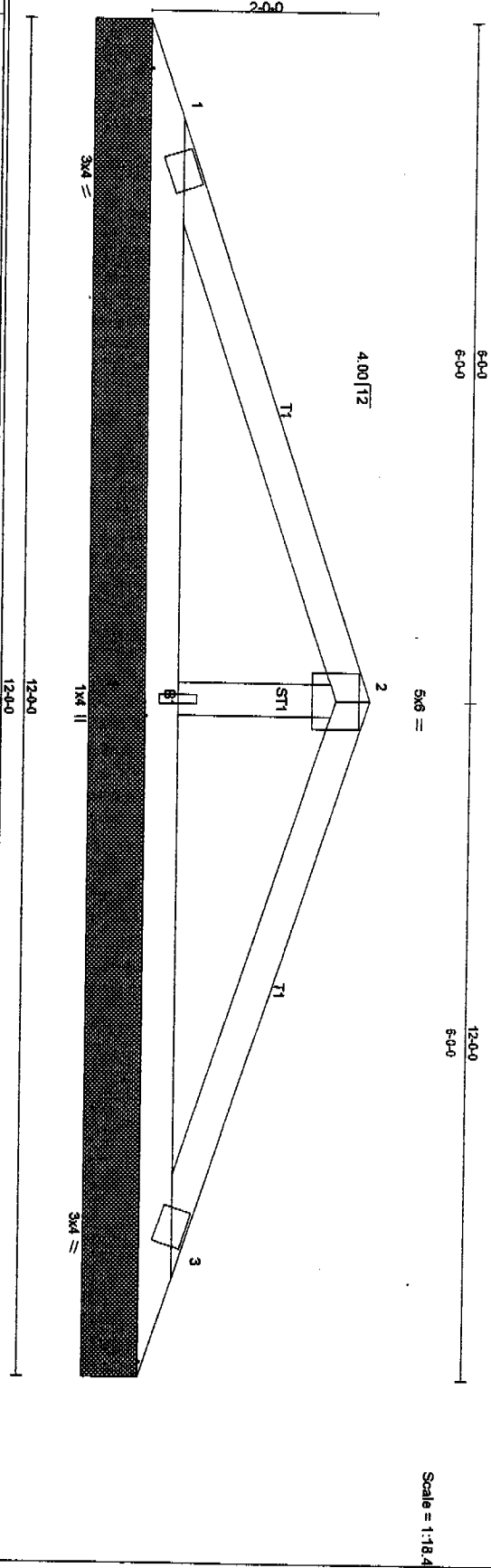
**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=12, 2-3=-35  
 BOT CHORD 1-4=11, 3-4=11  
 WEBS 2-4=-179

**BRACING**  
 TOP CHORD Sheathed or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

- NOTES**
- 1) This truss has been checked for unbalanced loading conditions.
  - 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 mt from hurricane coastline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
  - 3) Gable requires continuous bottom chord bracing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
  - 5) This truss has been designed with ANSI/TPI 1-1995 criteria.
- LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	V3	ROOF TRUSS	1	1	
M&D Valley Truss, Inc.					
(optional)					
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LOADING (psf)	SPACING	2-0-0	CSI	DEFL.	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.26	Vert(UL) n/a	MIZO	197/144
TCDL 14.0	Lumber Increase	1.25	BC 0.16	Vert(TL) n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.07	Horz(TL) 0.00		
BCDL 7.0	Code	UBC97/ANSI95	(Matrix)	1st LC LL Min Vdefl = 360		
Weight: 28 lb						

**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF No.2  
 OTHERS 2 X 4 SPF Stud

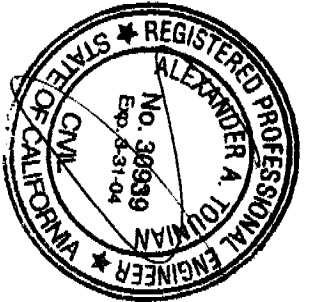
**BRACING**  
 TOP CHORD Sheathed or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS (lb/size)** 1=150/12-0-0, 3=150/12-0-0, 4=456/12-0-0  
 Max Horiz 1=4(load case 4)  
 Max Grav 1=158(load case 6), 3=158(load case 7), 4=456(load case 1)

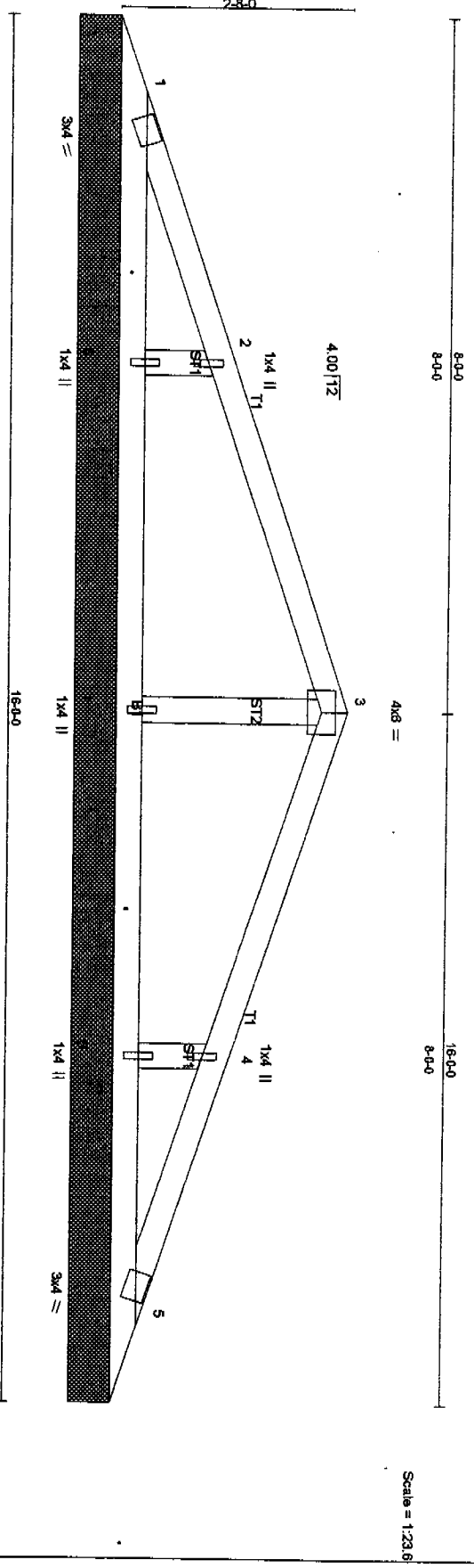
**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=31, 2-3=98  
 BOT CHORD 1-4=24, 3-4=24  
 WEBS 2-4=336

- NOTES**
- 1) This truss has been checked for unbalanced loading conditions.
  - 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 mi from hurricane coastline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
  - 5) This truss has been designed with ANSI/TPI 1-1995 criteria.

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	Rodriguez Residence
BD811	V4	ROOF TRUSS	1	1	
M&D Valley Truss, Inc.					(optional)
					4.201 SRT's Nov 16 2000 MTEK Industries, Inc. Fri Dec 21 08:37:00 2001 Page 1



<b>LOADING (psf)</b>	<b>SPACING</b>	<b>2-0-0</b>	<b>CSI</b>	<b>DEFL</b>	<b>In (loc)</b>	<b>Udefl</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 16.0	Plate Increase	1.25	TC 0.13	Vert(LL)	n/a	n/a	M120	197/144
TCOL 14.0	Lumber Increase	1.25	BC 0.07	Vert(TL)	n/a	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(TL)	0.00	5		
BCDL 7.0	Code	UBC97/ANSI95	(Metric)	1st LCLL Min Udefl = 360				

**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF No.2  
 OTHERS 2 X 4 SPF Stud

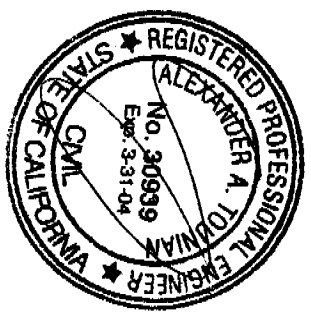
**BRACING**  
 TOP CHORD Sheathed or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS (lbs/size)** 1=90/16-0-0, 5=90/16-0-0, 7=289/16-0-0, 8=291/16-0-0, 6=291/16-0-0  
 Max Horiz 1=6(load case 4)  
 Max Grav 1=90(load case 1), 5=90(load case 1), 7=289(load case 1), 8=300(load case 6), 6=300(load case 7)

**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=19, 2-3=22, 3-4=53, 4-5=40  
 BOT CHORD 1-8=16, 7-8=16, 6-7=16, 5-6=16  
 WEBS 3-7=235, 2-8=228, 4-6=228

- NOTES**
- 1) This truss has been checked for unbalanced loading conditions.
  - 2) This truss has been designed for the wind loads generated by 80 mph winds at 25 ft above ground level, using 9.3 psf top chord dead load and 5.0 psf bottom chord dead load, 100 mi from hurricane coastline, on an occupancy category I, condition I enclosed building, of dimensions 45 ft by 24 ft with exposure B ASCE 7-93 per UBC97/ANSI95 if and verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
  - 5) This truss has been designed with ANSI/TPI-1-1995 criteria.

**LOAD CASE(S)** Standard





# BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS

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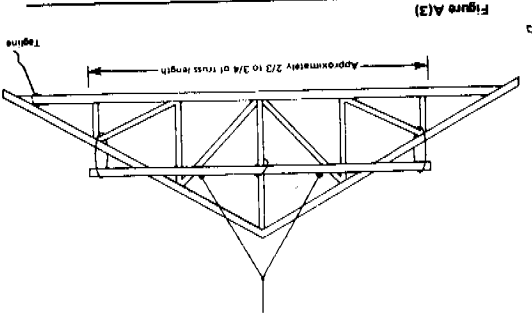


However carefully wood trusses are designed and fabricated, all this is at stake in the final erection and bracing of a roof or floor system. It is at this critical stage of construction that many of the really significant design assumptions are either fulfilled or ignored. If ignored, the consequences may result in a collapse of the structure which at

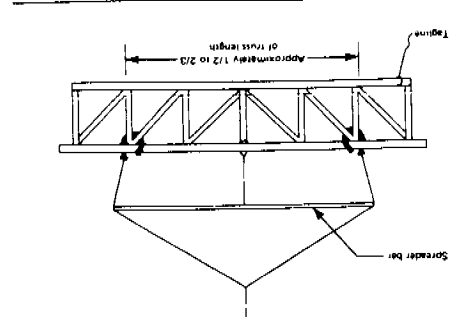
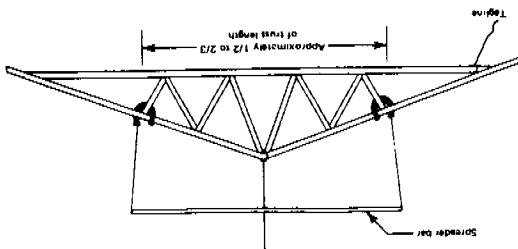
The design of wood trusses in accordance with TPI design criteria assumes:

1. Truss members are initially straight, uniform in cross section, and uniform in design properties.
2. Trusses are plane structural components, installed vertically, braced to prevent lateral movement and parallel to each other.

For lifting trusses with spans in excess of 60 feet, it is recommended that a strongback be used as illustrated in Figure A(3). The strongback should be attached to the top chord and web members at intervals of approximately 10 feet. Further, the strongbacks should be at or above the mid-height of the truss so as to prevent overturning. The strongback can be of any material with sufficient strength to safely carry the weight of the truss and sufficient rigidity to adequately resist bending of the truss.



For truss spans between 30 feet and 60 feet a suggested lifting procedure is shown in Figure A(2). It should be noted that the lines from the ends of the spreader bar, "toe-in," if these lines should "toe-out," they will tend to cause buckling of the truss.

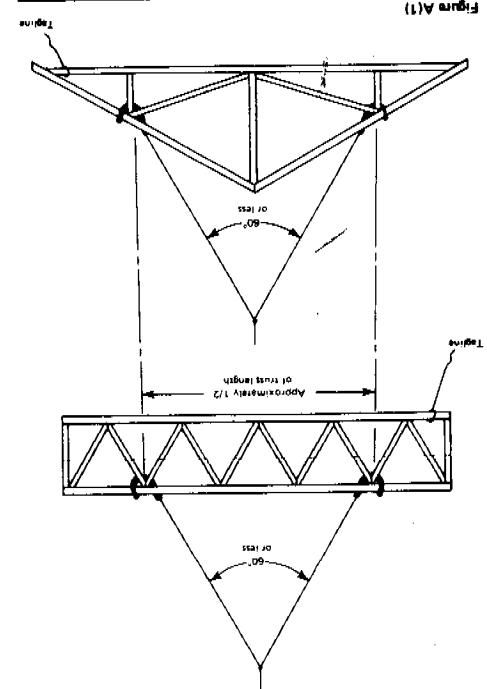


ERECTING TRUSSES. The truss erector or builder shall take the necessary precautions to insure that handling and erection procedures do not reduce the load-carrying capacity of the truss.

Trusses shall be installed plumb, at specified spacing and in-plane (i.e., trusses will be properly aligned).

These recommendations for bracing wood trusses have been derived from the collective experience of leading technical personnel in the wood truss industry but must, due to the nature of responsibilities involved, be presented only as a guide for the use of a qualified building designer, builder, or erection contractor.

A suggested procedure for lifting trusses is illustrated in Figure A(1) if the truss span does not exceed 30 feet.



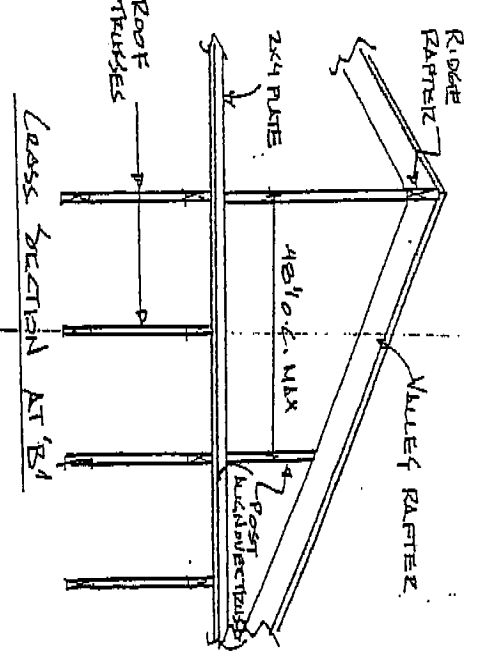
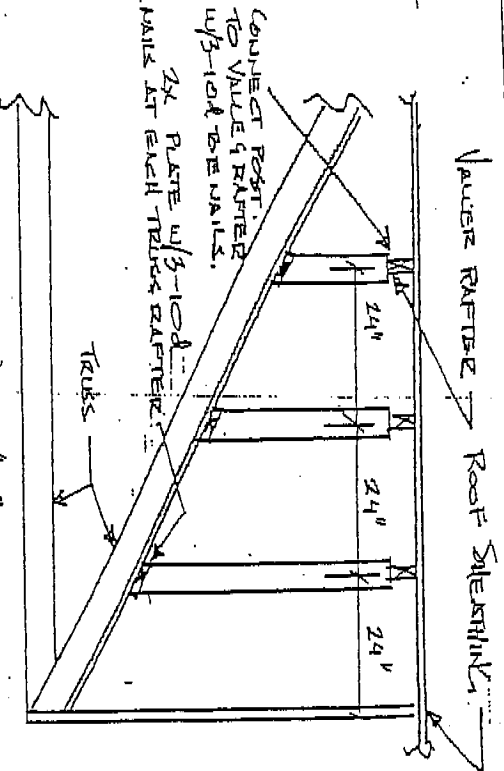
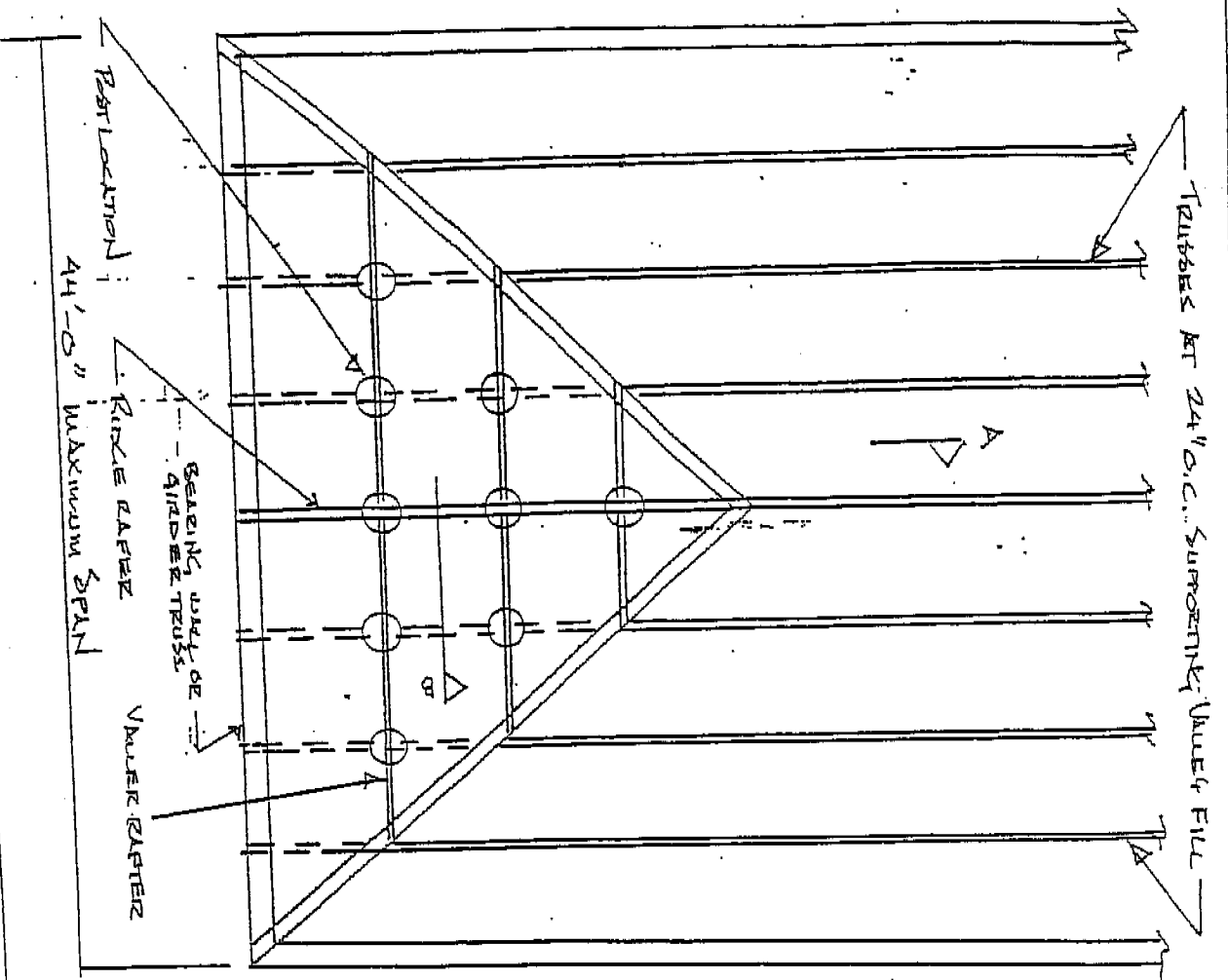
It is recommended that this diagonal bracing, as shown in Figure 6(b), be installed on both sides of the ridge line in all end bays. If the building exceeds 60 feet in length, this bracing should be repeated at intervals no greater than 20 feet.

2. Web Member Plane. The purpose of this bracing is to hold the trusses in a vertical position and to maintain the design spacing. In addition, this lateral bracing may be required to shorten the buckling

that one complete bay or diagonal bracing be installed at each end of any building, and additional such bays be located at specified intervals not to exceed 20 feet. Figure 5 illustrates the use of bracing in the plane of the bottom chord.

Figure 6(a) illustrates the necessity for applying diagonal bracing in the plane of the top chord despite the use of closely spaced purlins.

VALLEY FRAMING



NOTE: LATERAL FORCE CAPACITY AND TRANSFER IN THE ROOF SYSTEM SHALL BE REVIEWED & APPROVED BY QUALIFIED BLEND. DESIGNER.

SHEET # 2 OF 2

<p><b>Handling &amp; Erection</b></p> <p>Sections handling of components shall not be permitted unless the manufacturer's instructions are followed. Components shall be stored in a dry, well-ventilated area. Components shall be stored in a dry, well-ventilated area. Components shall be stored in a dry, well-ventilated area.</p>	<p><b>Miscellaneous Information</b></p> <p>The use of this component shall be specified by the designer of the complete structure. The designer shall specify the appropriate and correct handling and erection instructions. The designer shall specify the appropriate and correct handling and erection instructions.</p>	<p><b>Bracing Information</b></p> <p>At least bracing, specified in the manufacturer's literature, shall be provided for all members and connections. Bracing shall be provided for all members and connections.</p>	<p><b>Connector Hardware</b></p> <p>Connector plates are manufactured in accordance with the applicable code. Connector plates are manufactured in accordance with the applicable code.</p>	<p><b>Lumber</b></p> <p>Lumber shall be of a grade and species approved by the manufacturer. Lumber shall be of a grade and species approved by the manufacturer.</p>	<p><b>Design Criteria</b></p> <p>This design is based on the applicable code. This design is based on the applicable code.</p>	<p><b>CHARACTER MEMBERS</b></p> <p><b>MITEK INDUSTRIES, INC.</b>              3140 Cold Camp Dr., #110              Hanover, CA 95970              (408) 772-5551 FAX (916) 311-6115              Copyright (C) 1992</p> <p>5-C-2477Z</p>
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IMPORTANT: READ ALL NOTES ON THIS DRAWING!

# **WARNING**

**DO NOT INSTALL THESE TRUSSES BEFORE  
READING INSTRUCTIONS.**

## **ERECTOR**

**DO NOT INSTALL THESE TRUSSES BEFORE READING AND  
COMPLYING WITH THESE INSTRUCTIONS.**

## **GENERAL CONTRACTOR**

**DO NOT LOAD THESE TRUSSES WITH PERMANENT OR  
TEMPORARY LOADS BEFORE READING THESE IN-  
STRUCTIONS.**

1. BEFORE ERECTING THESE TRUSSES ERECTOR SHOULD:
  - A. OBTAIN, STUDY AND COMPLY WITH "HANDLING, INSTALLING AND BRACING" (HIB 91) AS PUBLISHED BY TPI. OBTAIN THIS GUIDE FROM: THE FABRICATOR OR DEALER WHO PROVIDED THE TRUSSES OR TPI, 7411 RIGGS ROAD, HYATTSVILLE, MARYLAND 20783.

## **ALTERNATE**

- B. OBTAIN COMPLETE ERECTION BRACING PLAN FROM BUILDING ARCHITECT, ENGINEER OR STRUCTURALLY COMPETENT DESIGNER.

## **CAUTION**

**ERECTOR IS RESPONSIBLE FOR ALL DAMAGES OR INJURY AS A RESULT OF INADEQUATE BRACING FAILURES OCCURRING DURING ERECTION AND PRIOR TO INSTALLATION OF PERMANENT BRACING. COMPLIANCE WITH THIS INDUSTRY GUIDE IS IN YOUR BEST INTEREST.**

**(OVER)**