

**CITY OF SACRAMENTO**

1231 I Street, Sacramento, CA 95814

**Permit No: 0107729**

**Insp Area: 2**

**Thos Bros: 316G6**

**Site Address: 6295 NORTH POINT WY SAC**

**Parcel No. 030-0790-027**

**Sub-Type: NOTHR**

**Housing (Y/N): N**

**CONTRACTOR**

ZIMMERMAN ROOFING, INC  
3675 R STREET  
SACRAMENTO, CA 95814

**OWNER**

YAMAMOTO EIJI R/KATHLEEN H  
6295 NORTH POINT WY  
SACRAMENTO CA 95831

**ARCHITECT**

**Nature of Work: TO REROOF WITH LIFE TILL**

**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. 4097, C.V.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 8 of the Business and Professions Code and my license is in full force and effect.

License Class C-39 License Number 557559 Date 3/1/01 Contractor Signature [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.

**PAID  
CITY OF SACRAMENTO**

I am exempt under Sec. \_\_\_\_\_ B & PC for this reason: FIG 0 9 2001

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

**NEIGHBORHOODS PLANNING  
AND DEVELOPMENT SERVICES**  
IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city certifies, that the applicant verified the measurements and locations shown on the application or accompanying drawings, and that the improvements 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 the 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 representatives of this city to enter upon the abovementioned property for inspection purposes.

Date 3/1/01 Applicant/Agent Signature [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 STATE FUND Policy Number 713-00-2021 Exp Date 10/01/2001

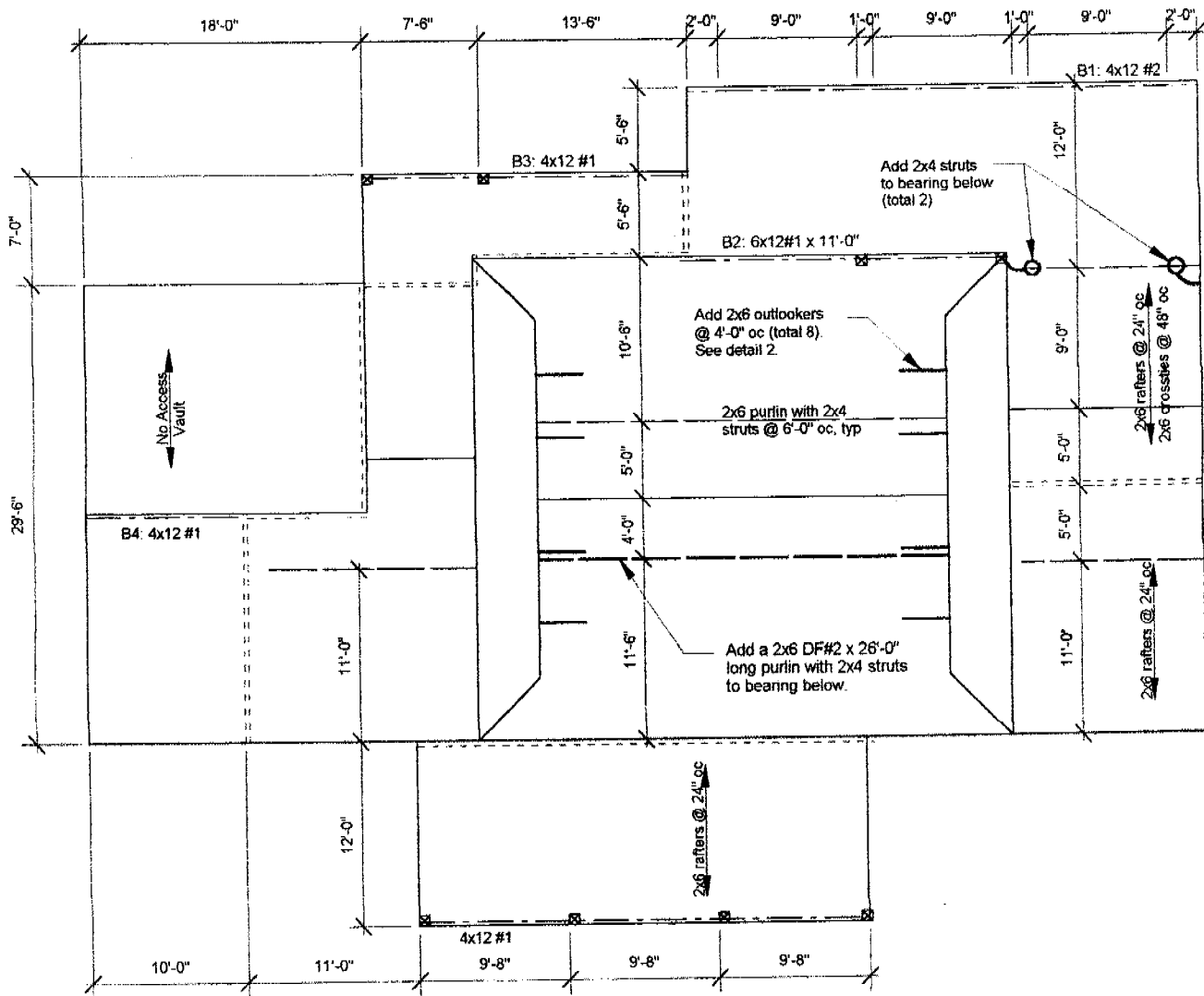
(This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become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

Date 3/1/01 Applicant Signature [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.**

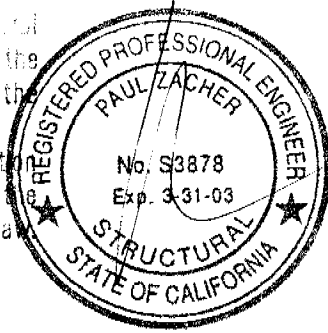
# 6295 NORTH POINT WAY



This set of plans and specifications must be kept on the job at all times and it is prohibited to make any changes or alterations from the same without written permission from the Building Inspection Division.

The approval of this plan and specifications SHALL NOT be held to permit or approve a violation of any City Ordinance or State Law.

*Paul Zacher* 8/6/01



**Notes:**

1. This is a reroof project. The new roofing material shall be a Light Weight Concrete Tile. The tile shall weigh less than or equal to 7.0 psf.
2. All rafters are 2x6 DF#2 and hips and valleys are 2x8 DF#2 unless otherwise noted.
3. All existing rafter, hips, valleys, rafter ties, and purlins are braced per UBC Section 2320.12 "Roof and Ceiling Framing" unless otherwise shown.
4. All structural wood members that were observed appear to be in sound condition and without structural defect.

1

**ROOF PLAN - YAMAMOTO**

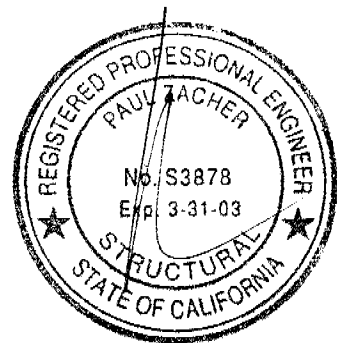
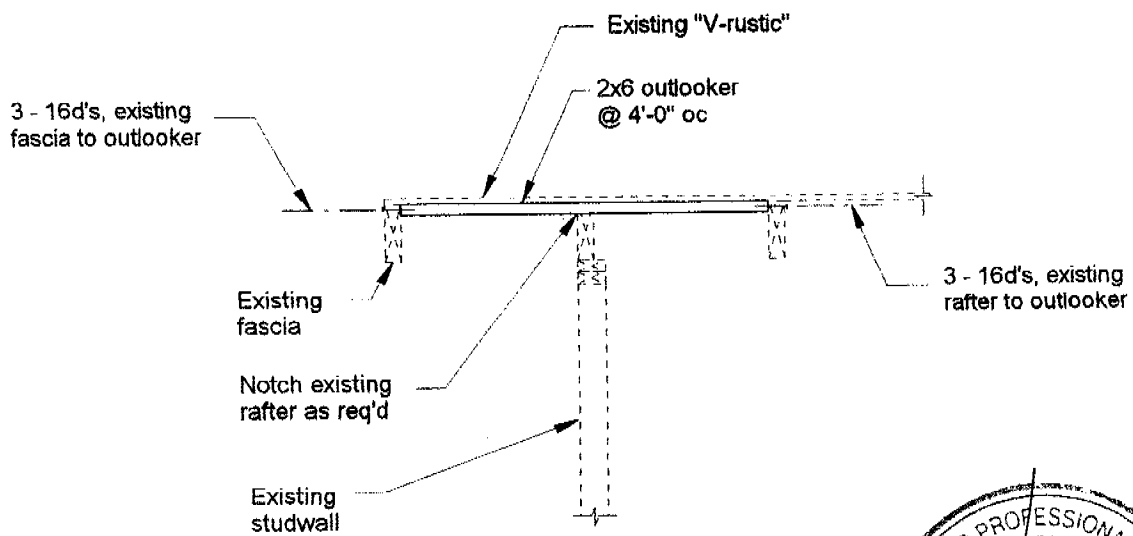
Not to Scale

7

**ISSUED**

AUG 09 2001

Sacramento Building Division



2

**DETAIL**

scale: 1/2" = 1'-0"

8

Yamamoto

**Paul Zacher - Structural Engineers**  
4701 Lakeside Way  
Fair Oaks, CA 95628

TEL: 916.961.3960  
FAX: 916.961.6552

May 14, 2001

Zimmerman Roofing  
3675 R Street  
Sacramento, CA 95816  
TEL: 916.454.3667  
FAX: 916.455.3784

Attn.: Mr. Jeff Tucker,

re: Job 2001\_121: YAMAMOTO

Subject: Structural Investigation Report of the Roof for the Residence located at 6295 North Point Way, Sacramento, CA 95831.

As requested by Mr. Jeff Tucker, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site May 14, 2001. The investigation was made to determine the existing condition of the structure. All information, data and analysis contained within this report are based on the 1997 Uniform Building Code.

The following is based on visual observations with no subsurface investigation being made.

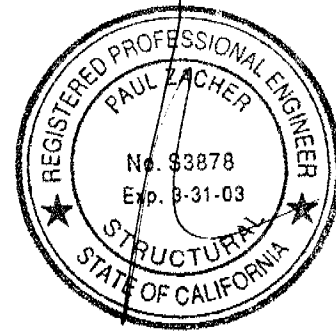
**DESCRIPTION:**

Type of Facility: Residence.  
Year Built: Estimated 1980's vintage.  
Occupancy: Residential.  
No. of Stories: Two.  
Dimensions: Approximately 3000 square feet with a first story plate height of 8 feet.

**CONSTRUCTION:**

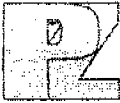
**Roof:**

The roof covering will consist of a Light Weight Concrete Tile over 1/2" solid sheathing. The living area is conventionally framed with 2x6 rafters spaced at 24" on center with 2x6 purlins supported at no more than 6'-0" on center by 2x4 struts bearing on walls below except for the vaulted ceiling areas. The vaulted ceiling is inaccessible but is supported at the ridge by a 4x beam. The garage area is framed with 2x6 rafters spaced at 24" on center and 2x6 cross ties spaced at 4'-0" on center.



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Yamamoto



Paul Zacher - Structural Engineers  
4701 Lakeside Way  
Fair Oaks, CA 95628

TEL: 916.961.3960  
FAX: 916.961.6552

### CONCLUSIONS:

#### Roof:

The living and garage areas currently lack sufficient structural capacity for the applied live and dead loads. See "Recommendations" for location and repair to bring the living and garage areas up to the required capacity.

### RECOMMENDATIONS:

If any of the following recommendations do not correspond to actual field conditions, the engineer of record shall be notified for further investigation and evaluation before continuing work.

#### Living Area:

1. After the roofing material has been removed, the contractor shall verify that the framing in the inaccessible portion of the structure does not exceed the following:

#### Vaulted Ceiling Portion:

- a. 2x8 @ 16" oc - max span = 15'-9"

If the framing differs from the above, the contractor shall supply the engineer with diagrams showing the member sizes and span lengths. The engineer shall then determine if the structure can adequately support the applied dead and live loads and a supplemental report shall be issued. See detail 1.

2. Add a 2x6 DF#2 x 26'-0" long purlin with 2x4 struts to the bearing walls below.

3. Add 2x6 out lookers spaced at 4'-0" on center. See details 1 and 2.

- ~~4. Seal a 1 3/4" x 11 7/8" x 16'-0" long LVL to the existing 2x6 purlin which spans 16'-0". Attach it with 16d's @ 3" on center. Support the LVL to the bearing walls below with 2x4 struts. See details 1 and 2.~~

*NOT REQ'D PER ENGINEER 8/6/01 - SEE ATTACHED FAX*

#### Garage:

5. Provide additional 2x4 struts from the existing purlins to the bearing walls below. The maximum spacing between the new and existing struts shall not exceed 6'-0" on center. The unbraced length of the struts shall not exceed 8'-0" and the minimum slope of the struts shall not be less than 45 degrees from the horizontal. See detail 1.

It shall be noted that small hairline cracking may occur at exterior stucco and interior gypboard finished walls that are load bearing or distributing roof strut loads. These cracks are a natural occurrence as the existing structure re-distributes the new roof weight. They are cosmetic in nature and are not an indication of a structural hazard or failure.

It shall be noted that some deflection of the rafters may be evident after installation of the tile. The existing roof framing has deflected but this may not be readily evident due to the uneven nature of the existing roofing material. Concrete tile is a very consistent and uniform product and when installed in an even plane, even small deflections can become apparent. This is only a cosmetic issue and not a structural concern.

Yamamoto



Paul Zacher - Structural Engineers  
4701 Lakeside Way  
Fair Oaks, CA 95628

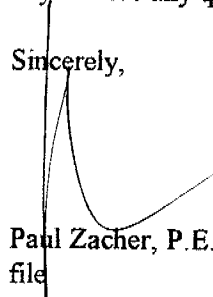
TEL: 916.961.3960

FAX: 916.961.6552

The inspection consisted of visual observation only, made solely to determine the structural capacity of the existing roof. Analysis does not determine any effects on the overall structure under lateral forces or effects on the foundation unless specifically noted in the calculations and in this document. No warranties, expressed or implied, are made or intended in conjunction with this report. The inspection was made only to the portions that were accessible. The specific items noted were those that were observable and there may be defects that are not observable, or are hidden by architectural and structural materials.

If you have any questions on the above, do not hesitate to call.

Sincerely,



Paul Zacher, P.E., S.E.  
file



Job #: 01-121

Date: 5/14/01

LOADING

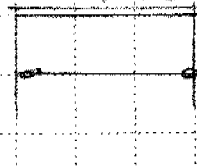
RAFTER

DR = 11.5 p.s.f. x 2° = 23 p.s.f.

LR = 16.0 " " = 32 "

1x6 #2

23/32



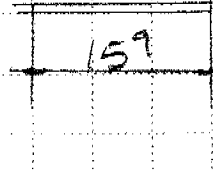
VAULT

DR = 15.7 p.s.f. x 4/3 = 20.9 p.s.f.

LR = 16.0 " " = 21.3 "

1x8 #2

20.9/21.3



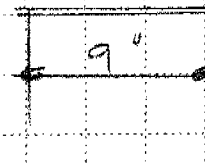
B1

DR = 11.5 p.s.f. x 6° = 69 p.s.f.

LR = 16.0 " " = 96 "

4x12 #2

69/96



B2

DR = 11.5 p.s.f. x 10° = 124 p.s.f.

LR = 16.0 " " = 172 "

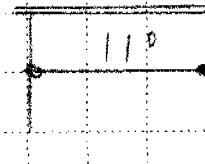
DR = 10 " " x 7° = 75 "

LR = 40 " " = 300 "

DR = 15 " " x 8° = 120 "

6x12 #2

124/172



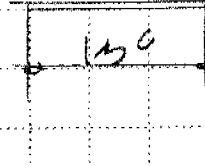
B3:

DR = 11.5 p.s.f. x 3° = 35 p.s.f.

LR = 16.0 " " = 48 "

4x12 #1

35/48



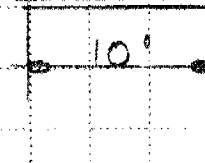
B4:

DR = 15.7 p.s.f. x 14° = 222 p.s.f.

LR = 16.0 " " = 236 "

4x12 #1

222/236





Paul Zacher - Structural Engineers  
 4701 Lakeside Way  
 Fair Oaks  
 TEL: (916) 961-3960  
 FAX: (916) 961-6552

Title :  
 Dsgnr:  
 Description :

Job #  
 Date: 2:21PM, 14 MAY 01

Scope :

Rev: 510304  
 User: KW.0602344, Ver 5.1.3.22-Jun-1999, Win32  
 (c) 1983-99 ENERCALC

### Timber Beam & Joist

c:\enercalc\test.ecw:Calculations

#### Description RAFTERS AND BEAMS

#### Timber Member Information

Calculations are designed to 1997 NDS and 1997 UBC Requirements

Timber Section		rafter 2x6	vault 2x8	B1 4x12	B2 6x12	B3 4x12	B4 4x12
Beam Width	in	1.500	1.500	3.500	5.500	3.500	3.500
Beam Depth	in	5.500	7.250	11.250	11.500	11.250	11.250
Le: Unbraced Length	ft	0.00	0.00	0.00	0.00	0.00	0.00
Timber Grade		Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch
Fb - Basic Allow	psi	875.0	875.0	875.0	1,350.0	1,000.0	1,000.0
Fv - Basic Allow	psi	95.0	95.0	95.0	85.0	95.0	95.0
Elastic Modulus	ksi	1,600.0	1,600.0	1,600.0	1,600.0	1,700.0	1,700.0
Load Duration Factor		1.250	1.250	1.250	1.250	1.250	1.250
Member Type		Sawn	Sawn	Sawn	Sawn	Sawn	Sawn
Repetitive Status		Repetitive	Repetitive	No	No	No	No

#### Center Span Data

Span	ft	12.00	15.75	9.00	11.00	13.50	10.00
Dead Load	#/ft	23.00	20.90	69.00	319.00	25.00	232.00
Live Load	#/ft	32.00	21.30	96.00	472.00	48.00	236.00

#### Results

Ratio = 0.9607 0.7917 0.2257 0.8079 0.1966 0.6915

Mmax @ Center	in-k	11.88	15.70	20.05	143.57	19.96	70.20
@ X =	ft	6.00	7.87	4.50	5.50	6.75	5.00
Fb : Actual	psi	1,570.9	1,194.9	271.5	1,184.3	270.3	950.9
Fb : Allowable	psi	1,635.2	1,509.4	1,203.1	1,687.5	1,375.0	1,375.0
		Bending OK	Bending OK	Bending OK	Bending OK	Bending OK	Bending OK
Fv : Actual	psi	55.7	42.5	22.4	85.8	16.2	72.7
Fv : Allowable	psi	118.8	118.8	118.8	106.3	118.8	118.8
		Shear OK	Shear OK	Shear OK	Shear OK	Shear OK	Shear OK

#### Reactions

@ Left End	DL	lbs	138.00	164.59	310.50	1,754.50	168.75	1,160.00
	LL	lbs	192.00	167.74	432.00	2,596.00	324.00	1,180.00
	Max. DL+LL	lbs	330.00	332.32	742.50	4,350.50	492.75	2,340.00
@ Right End	DL	lbs	138.00	164.59	310.50	1,754.50	168.75	1,160.00
	LL	lbs	192.00	167.74	432.00	2,596.00	324.00	1,180.00
	Max. DL+LL	lbs	330.00	332.32	742.50	4,350.50	492.75	2,340.00

#### Deflections

Ratio OK Deflection OK Deflection OK Deflection OK Deflection OK Deflection OK

Center DL Defl	in	-0.322	-0.380	-0.015	-0.094	-0.026	-0.074
L/Defl Ratio		446.5	497.8	7,045.3	1,401.0	6,121.6	1,623.0
Center LL Defl	in	-0.449	-0.387	-0.021	-0.139	-0.051	-0.075
L/Defl Ratio		320.9	488.5	5,063.8	946.9	3,188.3	1,595.5
Center Total Defl	in	-0.771	-0.767	-0.037	-0.234	-0.077	-0.149
Location	ft	6.000	7.875	4.500	5.500	6.750	5.000
L/Defl Ratio		186.7	246.5	2,946.2	565.0	2,096.4	804.6

# FACSIMILE COVER PAGE

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**To:** Mr. Brad Marchetti

**From:** Paul Zacher

**Sent:** 8/6/01 at 2:42:56 PM

**Pages:** 4 (including Cover)

**Subject:**

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Mr. Brad Marchetti,

Thank you for identifying the error on the following report for Yamamoto residence located at 6295 North Point Way. After reviewing my field notes it was determined that the inclusion of the 1-3/4" x 11-7/8" x 16'-0" long LVL to be scabbed to an existing purlin was in error and is not required.

Therefore, please note that there is no 1-3/4" x 11-7/8" x 16'-0" long LVL to be scabbed to an existing purlin.

thanks - pz