CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0111976
Insp Area: 2
Thos Bros: 336F1

Site Address: 7241 POCKET RD SAC
Parcel No: 031-0410-002

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

CONTRACTOR
ZIMMERMAN ROOFING, INC
3675 R STREET
SACRAMENTO, CA 95816

OWNER
RUSH JOHN
7241 POCKET RD
SACRAMENTO 95831

ARCHITECT

Nature of Work: TEAR OFF SHAKES & REROOF 25 SQ'S W/PIONEER TILE

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'sAddress _____

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 C-39 License Number 557559 Date 9/19/01 Contractor Signature Billy Coy

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 herby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 9/19/01 Applicant/Agent Signature Billy Coy

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.

PAID
CITY OF SACRAMENTO
SEP 19 2001
NEIGHBORHOOD PLANNING AND DEVELOPMENT SERVICES

_X_ 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

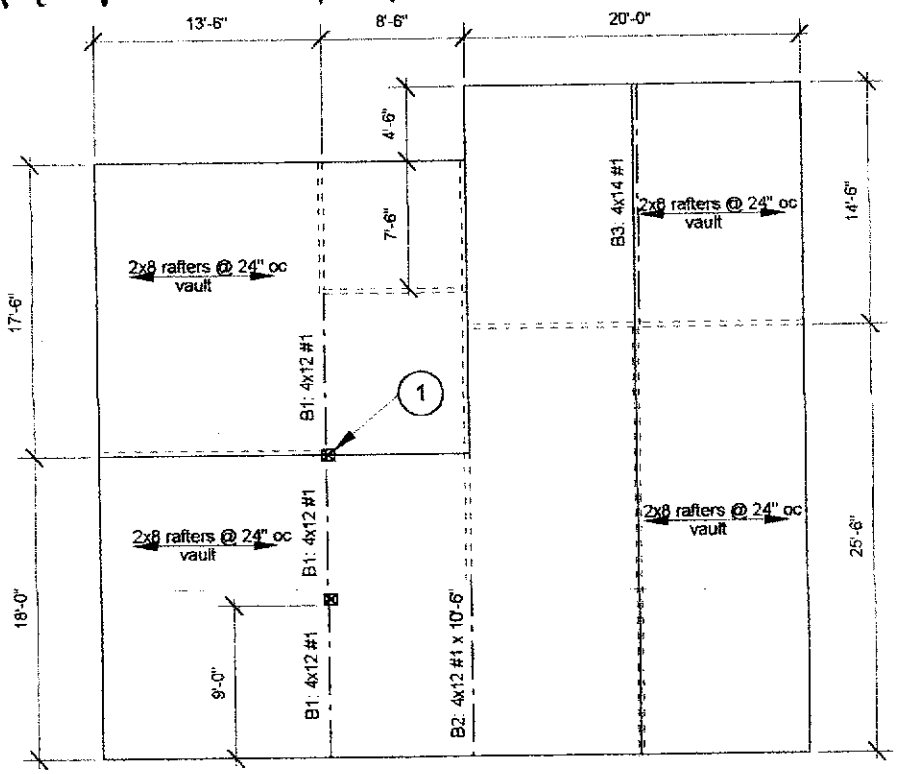
_____ (This section need not be completed if the permit is for $100 or less). I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become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

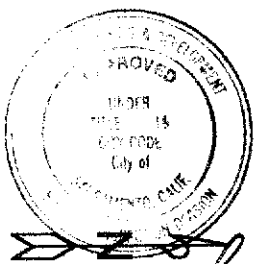
Date 9/19/01 Applicant Signature Billy Coy

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.

7241 POCKET RD





This set of plans and ... must be kept on the job ... It is unlawful to make any ... from the same with... from the Building ... specification ... prove the ... of State Law.

9/14/01

FRAMING NOTES:

1. Add a Simpson LCE4 post cap at 4x12 beam to 4x4 post (total 1).

Notes:

A. 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.
B. All rafters are 2x8 DF#2 and hips and valleys are 2x10 DF#2 unless otherwise noted.
C. All existing rafter, hips, valleys, rafter ties, and purlins are braced per UBC Section 2320.1 "Roof and Ceiling Framing" unless otherwise shown.
D. All structural wood members that were observed appear to be in sound condition and without structural defect.

1 ROOF PLAN - RUSH

Not to Scale

6

Rush

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

TEL: 916.961.3960
FAX: 916.961.6552

August 30, 2001

Zimmerman Roofing
3675 R Street
Sacramento, CA 95816
TEL: (916) 454-3667
FAX: (916) 392-6853

Attn.: Mr. Jeff Tucker,

re: Job 2001_254: RUSH

Subject: Structural Investigation Report of the Roof for the Residence located at 7241 Pocket Road, 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 August 30, 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 2000 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 vaulted ceiling is constructed of 2x8 rafters spaced at 24" on center supported mid-span and at the ridge by a 4x beam.

CONCLUSIONS:

Roof:

The roof structure currently lacks sufficient structural capacity for the applied live and dead loads. See "Recommendations" for location and repair to bring the garage up to the required capacity.

Paul Zacher – Structural Engineers
4701 Lakeside Way
Fair Oaks, CA 95628
TEL: 916.961.3960
FAX: 916.961.6552

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.

Roof Structure:

1. Add a Simpson post cap LCE4 at the 4x beam to 4x4 post connection. 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.

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

DESIGN LOADING:

Roof Pitch	6	in 12
Pitch Adjustment Factor	1.12	

LOCATION: VAULT

MATERIAL	WEIGHT	
Light Weight Tile	7.00	psf
Roofing felt	0.30	psf
1/2" OSB/ plywood	1.50	psf
1x4 skip sht'g	1.09	psf
2x8 rafters @ 24" oc	1.32	psf
Batt/blown insul	0.50	psf
1/2" Gypboard	2.50	psf
Load	14.2	psf
Roof Pitch Adjustment	1.68	psf
Total Load	15.9	psf

P.K. Zacher, S.E.
4701 Lakeside Way
Fair Oaks, CA 95628
TEL: (916) 961-3960
FAX: (916) 961-6552

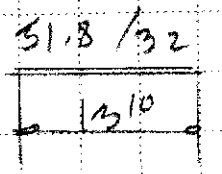
Job #: 01-254
Date: 8/30/01

LOADING

VAULT

DR = 15.9 psf × 2' = 31.8 plf 2×8 @ 2

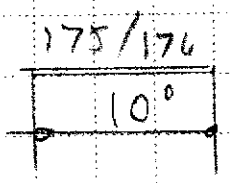
LR = 16.0 × 2 = 32



B1

DR = 15.9 psf × 11' = 175 plf 4×12 @ 1

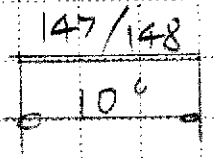
LR = 16.0 × 11 = 176 plf



B2

DR = 15.9 psf × 9' = 147 plf 4×12 @ 1

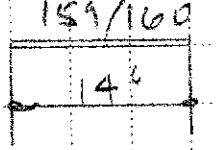
LR = 16.0 × 9 = 148



B3

DR = 15.9 psf × 10' = 159 plf 4×14 @ 2

LR = 16.0 × 10 = 160



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

Title :
Dsgnr:
Description :

Job #
Date: 3:49PM, 30 AUG 01

Scope :

Rev: 510304
User: KW-0602844, 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

		vault	B1	B2	B3
Timber Section		**2x8**	**4x12**	**4x12**	**4x14**
Beam Width	in	1.500	3.500	3.500	3.500
Beam Depth	in	7.250	11.250	11.250	13.250
Le: Unbraced Length	ft	0.00	2.00	0.00	0.00
Timber Grade		ouglas Fir - Larch,	ouglas Fir - Larch	Douglas Fir - Larch,	Douglas Fir - Larch,
Fb - Basic Allow	psi	875.0	1,000.0	1,000.0	1,000.0
Fv - Basic Allow	psi	95.0	95.0	95.0	95.0
Elastic Modulus	ksi	1,600.0	1,700.0	1,700.0	1,700.0
Load Duration Factor		1.250	1.250	1.250	1.250
Member Type		Sawn	Sawn	Sawn	Sawn
Repetitive Status		Repetitive	No	No	No

Center Span Data

Span	ft	13.83	10.00	10.50	14.50
Dead Load	#/ft	31.80	175.00	147.00	159.00
Live Load	#/ft	32.00	176.00	148.00	160.00

Results

Ratio =		0.9229	0.5210	0.4806	0.7859
Mmax @ Center	in-k	18.30	52.65	48.79	100.60
@ X =	ft	6.91	5.00	5.25	7.25
fb : Actual	psi	1,393.0	713.1	660.8	982.4
Fb : Allowable	psi	1,509.4	1,368.8	1,375.0	1,250.0
		Bending OK	**Bending OK**	**Bending OK**	**Bending OK**
fv : Actual	psi	56.0	54.6	48.6	63.4
Fv : Allowable	psi	118.8	118.8	118.8	118.8
		Shear OK	**Shear OK**	**Shear OK**	**Shear OK**

Reactions

@ Left End	DL	lbs	219.90	875.00	771.75	1,152.75
	LL	lbs	221.28	880.00	777.00	1,160.00
	Max. DL+LL	lbs	441.18	1,755.00	1,548.75	2,312.75
@ Right End	DL	lbs	219.90	875.00	771.75	1,152.75
	LL	lbs	221.28	880.00	777.00	1,160.00
	Max. DL+LL	lbs	441.18	1,755.00	1,548.75	2,312.75

Deflections

		Ratio OK	Deflection OK	Deflection OK	Deflection OK
Center DL Defl	in	-0.343	-0.056	-0.057	-0.137
L/Defl Ratio		483.2	2,151.6	2,212.7	1,269.1
Center LL Defl	in	-0.346	-0.056	-0.057	-0.138
L/Defl Ratio		480.2	2,139.4	2,197.7	1,261.2
Center Total Defl	in	-0.689	-0.112	-0.114	-0.275
Location	ft	6.915	5.000	5.250	7.250
L/Defl Ratio		240.9	1,072.7	1,102.6	632.6