

CITY OF SACRAMENTO

Permit No: 9809257

1231 I Street, Sacramento, CA 95814

Insp Area: 2

Site Address: 11 GAVILAN CT SAC

Sub-Type: RES

Parcel No: 0310340014

Housing (Y/N): N

CONTRACTOR

ZIMMERMAN ROOFING
3560 RAMONA AV
SACRAMENTO, CA

95826

OWNER

SCHWANER JR JOHN E/KATHLEEN
11 GAVILAN CT
SACRAMENTO CA

95831

ARCHITECT

Nature of Work: REROOF WITH TILE / FIELD VERIFY ENGINEERING OK

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 C39 License Number 557559 Date 9-21-98 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 hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 9-21-98 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.

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 97002021 EXP. 10-1-98

(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 9-21-98 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.



DEPARTMENT OF
PLANNING AND DEVELOPMENT

CITY OF SACRAMENTO
CALIFORNIA

1231 I STREET
ROOM 200
SACRAMENTO, CA
95814-2998

Permit Services
916-264-7619
FAX 916-264-7066

Schwanes at
11 Garton Ct

95831

TILE ROOF WORKSHEET

This worksheet must be filled out whenever any type of tile roof is applied for.

If the answer to question #5 is yes, a written engineering report from a registered engineer must be provided with each application.

1. BRAND AND MODEL OF TILE Morrey Villa
2. TILE WEIGHT PER SQUARE 585
3. WEIGHT OF ROOF SYSTEM PER SQUARE 180
4. TOTAL WEIGHT OF ROOF SYSTEM 765
5. DOES TOTAL WEIGHT OF ROOF SYSTEM EXCEED 750# PER SQUARE? YES NO
6. ROOF SLOPE 4/12

PLEASE PROVIDE A SEPARATE WORKSHEET FOR EACH APPLICATION INVOLVING A TILE ROOF.

see attached engineering

Schwamer

Paul Zacher-Structural Engineers

4701 Lakeside Way
Fair Oaks, CA 95628

TEL: 916.961.3960
FAX: 916.961.3960
e-mail: pzacher@softcom.net

September 11, 1998

Zimmerman Roofing
3560 Ramona Avenue
Sacramento, CA 95826
TEL: 916.454.3667
FAX: 916.455.3784
TEL (Jeff): 916.392.1971
FAX (Jeff): 916.392.6853
FAX (Framer): 916.383.5308

Attn.: Mr. Jeff Tucker,

re: Job 98174: SCHWANER

Subject: Structural Investigation Report of the Roof for the Residence located at 11 Gavilan Court, 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 September 11, 1998. The investigation was made to determine the existing condition of the structure. All information, data and analysis contained within this report is based on the 1994 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: One.
Dimensions: Approximately 2000 square feet with a first story plate height of 8 feet.

CONSTRUCTION:

Roof:

The roof covering will consist of Monier 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 over the vaulted ceiling area. The vaulted ceiling is constructed of 2x6 rafters spaced at 16" on center. The garage area is framed with 2x6 rafters spaced at 24" on center and 2x6 ceiling joists spaced at 16" on center.

Schwaner

CONCLUSIONS:

Roof:

The living area lacks sufficient structural capacity for the applied live and dead loads. The garage has sufficient structural capacity for the applied live and dead loads.

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. Provide additional 2x4 struts from the existing rafters to the bearing walls below. 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.

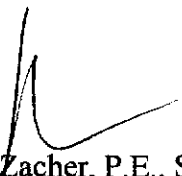
It shall be noted that small hairline cracking may occur at exterior stucco and interior gypboard finished walls which are load bearing or distributing roof strut loads. These cracks are a natural occurrence as the existing structure re-distributes the new roof weight. They are cosmetic in nature and 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 which 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 4 in 12
Pitch Adjustment Factor 1.05

LOCATION: ROOF

<u>MATERIAL</u>	<u>WEIGHT</u>	
Monier Villa Duralite	5.80	psf
Roofing felt	0.30	psf
1x4 skip sht'g	1.09	psf
1/2" OSB/ plywood	1.50	psf
2x6 rafters @ 24" oc	<u>1.00</u>	psf
	Load	9.7 psf
Roof Pitch Adjustment	<u>0.52</u>	psf
Total Load	10.2	psf

LOCATION: VAULT

<u>MATERIAL</u>	<u>WEIGHT</u>	
Monier Villa Duralite	5.80	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	<u>2.50</u>	psf
	Load	13.0 psf
Roof Pitch Adjustment	<u>0.70</u>	psf
Total Load	13.7	psf

Title :
 Dsgnr:
 Description :

Date:
 Job #

Scope :

Rev: 510001

Timber Beam & Joist

Page 1

Description RAFTERS AND BEAMS

Timber Member Information

	2x6	4x12	2x6 vault	6x14	
Timber Section	2x6	4x12	2x6	6x14	2x12
Beam Width	in: 1.500	3.500	1.500	5.500	0.000
Beam Depth	in: 5.500	11.250	5.500	13.500	0.000
Le: Unbraced Length	ft: 2.00	2.00	2.00	2.00	2.00
Timber Grade	Douglas Fir - Larch, Douglas Fir - Larch, Douglas Fir - Larch, Douglas Fir - Larch,				
Fb - Basic Allow	psi: 875.0	875.0	875.0	1,000.0	0.0
Fv - Basic Allow	psi: 95.0	95.0	95.0	95.0	0.0
Elastic Modulus	ksi: 1,600.0	1,600.0	1,600.0	1,700.0	1,600.0
Load Duration Factor	1.250	1.250	1.250	1.250	1.250
Member Type	Sawn	Sawn	Sawn	Sawn	
Repetitive Status	Repetitive	No	Repetitive	No	No

Center Span Data

Span	ft:	12.00	16.00	13.00	21.50	14.00
Dead Load	#/ft:	20.40	71.40	18.20	96.00	
Live Load	#/ft:	32.00	112.00	21.30	112.00	
Point #1 DL	lbs:					1,323.00
LL	lbs:					1,512.00
@ X	ft:					5.000

Results Ratio = 0.9312 0.7974 0.8238 0.7017 0.0000

Mmax @ Center	in-k:	11.32	70.43	10.01	144.22	0.00
@ X =	ft:	6.00	8.00	6.50	10.75	0.00
fb : Actual	psi:	1,496.6	953.9	1,324.1	863.3	0.0
Fb : Allowable	psi:	1,607.3	1,196.3	1,607.3	1,230.2	0.0
		Bending OK	Bending OK	Bending OK	Bending OK	Bending OK
fv : Actual	psi:	53.0	49.6	43.7	40.5	0.0
Fv : Allowable	psi:	118.8	118.8	118.8	118.8	0.0
		Shear OK	Shear OK	Shear OK	Shear OK	Shear OK

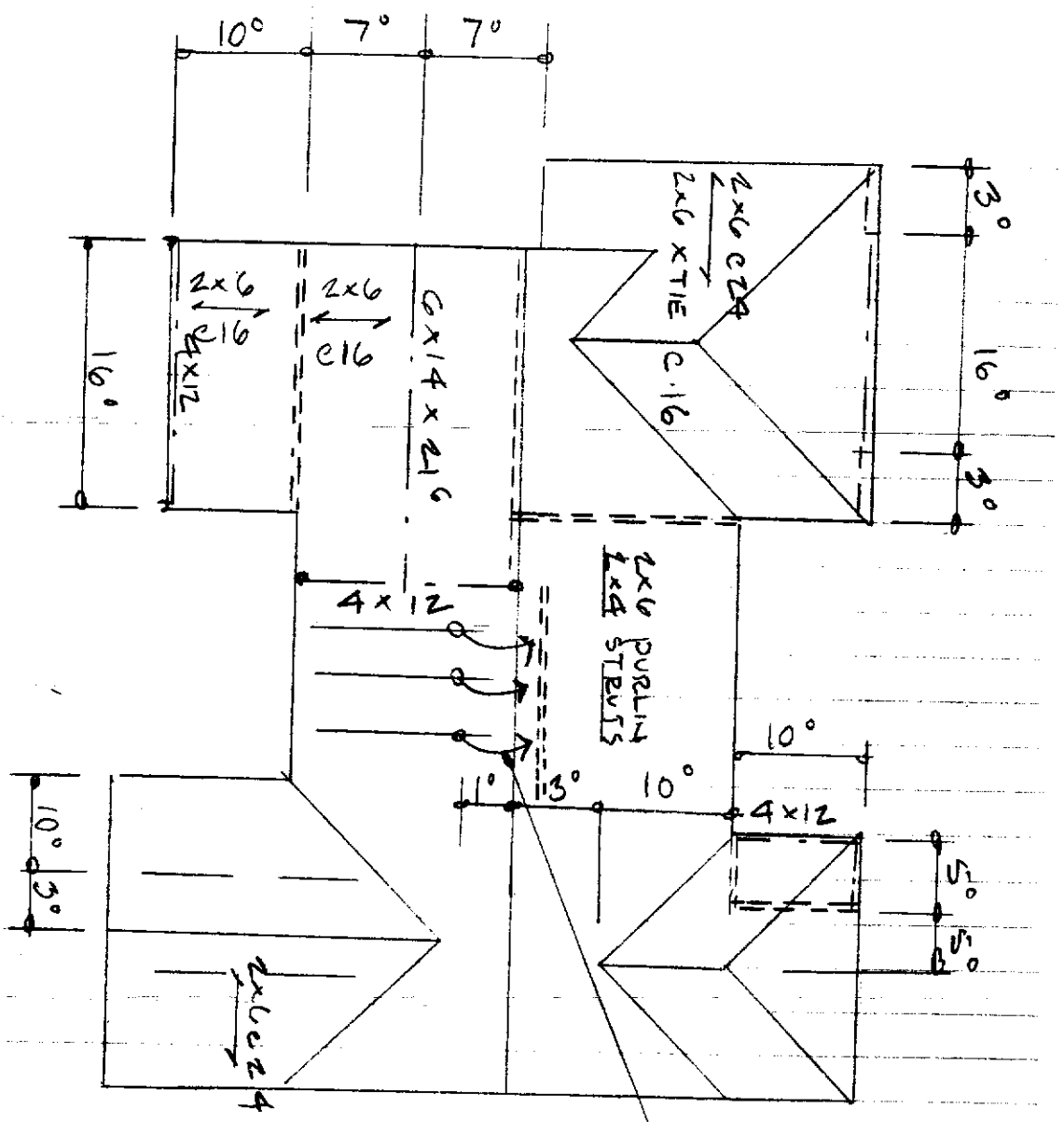
Reactions

@ Left End DL	lbs:	122.40	571.20	118.30	1,032.00	0.00
LL	lbs:	192.00	896.00	138.45	1,204.00	0.00
Max. DL+LL	lbs:	314.40	1,467.20	256.75	2,236.00	0.00
@ Right End DL	lbs:	122.40	571.20	118.30	1,032.00	0.00
LL	lbs:	192.00	896.00	138.45	1,204.00	0.00
Max. DL+LL	lbs:	314.40	1,467.20	256.75	2,236.00	0.00

Deflections

Center DL Defl	in:	-0.286	-0.158	-0.351	-0.241	0.000
L/Defl Ratio		503.4	1,211.8	443.8	1,071.7	0.0
Center LL Defl	in:	-0.449	-0.249	-0.411	-0.281	0.000
L/Defl Ratio		320.9	772.5	379.2	918.6	0.0
Center Total Defl	in:	-0.735	-0.407	-0.763	-0.522	0.000
Location	ft:	6.000	8.000	6.500	10.750	0.000
L/Defl Ratio		196.0	471.8	204.5	494.6	0.0

4



① ROOF PLAN - SCHWANER

N.T.S.

ADD 4x4 STRUTS
FROM EXISTING PAPERS
TO BEG HALL BELOW.
(TOTAL 5)



LN

