

CITY OF SACRAMENTO

Permit No: 9900861

1231 I Street, Sacramento, CA 95814

Insp Area: 2

Site Address: 6 LAGUNA SECA CT SAC RES

Sub-Type:

Parcel No: 0310510012

Housing (Y/N): N

CONTRACTOR RON YOUNG'S CALIBER ROOF SYSTEMS

OWNER

ARCHITECT FARNCOMB ROBERT M/JUDY K

8157 FOLLET CT SAC CA

95828

SACRAMENTO CA

95812-1233

Nature of Work: REROOF T/O RESHEET INSTALL LT WT 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'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 746648 Date 1-28-99 Contractor Signature Lynette Young

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 1-28-99 Applicant/Agent Signature Lynette Young

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:

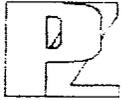
Carrier Policy Number Exp Date

(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 1-28-99 Applicant Signature Lynette Young

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.

Wetzel



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

TEL: 916.961.3960
FAX: 916.961.3960

CONCLUSIONS:

Roof:

The living and garage areas have sufficient structural capacity for the applied live and dead loads.

RECOMMENDATIONS:

None.

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	6	in 12
Pitch Adjustment Factor	1.12	

LOCATION: ROOF

<u>MATERIAL</u>	<u>WEIGHT</u>	
Monier Duralite	6.00	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	9.9	psf
Roof Pitch Adjustment	<u>1.17</u>	psf
Total Load	11.1	psf

LOCATION: VAULT

<u>MATERIAL</u>	<u>WEIGHT</u>	
Monier Duralite	6.00	psf
Roofing felt	0.30	psf
1/2" OSB/ plywood	1.50	psf
1x4 skip sht'g	1.09	psf
2x6 rafters @ 24" oc	1.00	psf
Batt/blown insul	0.50	psf
1/2" Gypboard	<u>2.50</u>	psf
Load	12.9	psf
Roof Pitch Adjustment	<u>1.52</u>	psf
Total Load	14.4	psf

PAUL ZACHER - STRUCTURAL ENGINEERS
 4701 LAKESIDE WAY
 FAIR OAKS, CA 95628
 TEL: 916.961.3960
 FAX: 916.961.3960

Title :
 Dsgnr:
 Description :

Job #
 Date: 4:53PM, 13 JAN 99

Scope :

Rev: 510001

Timber Beam & Joist

Description RAFTERS AND BEAMS

Timber Member Information

Timber Section		2x6	2x6 vault	4x12	6x14	6x12
		2x6	2x6	4x12	6x14	6x12
Beam Width	in	1.500	1.500	3.500	5.500	5.500
Beam Depth	in	5.500	5.500	11.250	13.500	11.500
Le: Unbraced Length	ft	2.00	0.00	0.00	0.00	0.00
Timber Grade		Douglas Fir - Larch,				
Fb - Basic Allow	psi	875.0	875.0	875.0	1,350.0	1,350.0
Fv - Basic Allow	psi	95.0	95.0	95.0	85.0	85.0
Elastic Modulus	ksi	1,600.0	1,600.0	1,600.0	1,600.0	1,600.0
Load Duration Factor		1.250	1.250	1.250	1.250	1.250
Member Type		Sawn	Sawn	Sawn	Sawn	Sawn
Repetitive Status		Repetitive	Repetitive	No	Repetitive	Repetitive

Center Span Data

Span	ft	12.00	10.50	13.50	15.50	13.25
Dead Load	#/ft	22.20	28.80	115.00	173.00	
Live Load	#/ft	32.00	32.00	128.00	192.00	
Point #1 DL	lbs					1,341.00
LL	lbs					1,488.00
@ X	ft					4.500

Results Ratio = 0.9631 0.8131 0.7479 0.4604 0.4286

Mmax @ Center	in-k	11.71	10.05	66.43	131.54	100.83
@ X =	ft	6.00	5.25	6.75	7.75	4.50
fb : Actual	psi	1,548.1	1,329.6	899.8	787.4	831.7
Fb : Allowable	psi	1,607.3	1,635.2	1,203.1	1,915.4	1,940.6
		Bending OK				
fv : Actual	psi	54.9	53.4	54.0	48.9	44.3
Fv : Allowable	psi	118.8	118.8	118.8	106.3	106.3
		Shear OK				

Reactions

@ Left End DL	lbs	133.20	151.20	776.25	1,340.75	885.57
LL	lbs	192.00	168.00	864.00	1,488.00	982.64
Max. DL+LL	lbs	325.20	319.20	1,640.25	2,828.75	1,868.21
@ Right End DL	lbs	133.20	151.20	776.25	1,340.75	455.43
LL	lbs	192.00	168.00	864.00	1,488.00	505.36
Max. DL+LL	lbs	325.20	319.20	1,640.25	2,828.75	960.79

Deflections

Center DL Defl	in	-0.311	-0.237	-0.129	-0.125	-0.088
L/Defl Ratio		462.6	532.3	1,252.5	1,493.7	1,814.8
Center LL Defl	in	-0.449	-0.263	-0.144	-0.138	-0.097
L/Defl Ratio		320.9	479.1	1,125.3	1,345.9	1,635.5
Center Total Defl	in	-0.760	-0.500	-0.273	-0.263	-0.185
Location	ft	6.000	5.250	6.750	7.750	6.042
L/Defl Ratio		189.5	252.1	592.7	708.0	860.2