

**CITY OF SACRAMENTO**

**Permit No: 9811650**

**1231 I Street, Sacramento, CA 95814**

**Insp Area: 2**

**Site Address: 93 PARKSHORE CR SAC**

**Sub-Type: RES**

**Parcel No: 0310250028**

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

CONTRACTOR  
ZIMMERMAN ROOFING  
3560 RAMONA AV  
SACRAMENTO, CA

95826

OWNER  
JEE JORDAN/CHERYL  
93 PARKSHORE CR  
SACRAMENTO CA

95831

ARCHITECT

**Nature of Work: REMOVE OLD ROOF & REROOF W/PIONEER TILE 4/12 PITCH - SFR - 39SQS**

**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 C31 License Number 557559 Date 12-9-98 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).

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 12-9-98 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 COMP INS FUND Policy Number 713-98-2021 Exp Date 10/01/1999

\_\_\_\_\_, (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 12-9-98 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.**



DEPARTMENT OF  
PLANNING AND DEVELOPMENT

CITY OF SACRAMENTO  
CALIFORNIA

1231 I STREET  
ROOM 200  
SACRAMENTO, CA  
95814-2998

Permit Services  
916-264-7809  
FAX 916-264-7096

Jordan Jee at  
93 Parkshore  
95831

**TILE ROOF WORKSHEET**

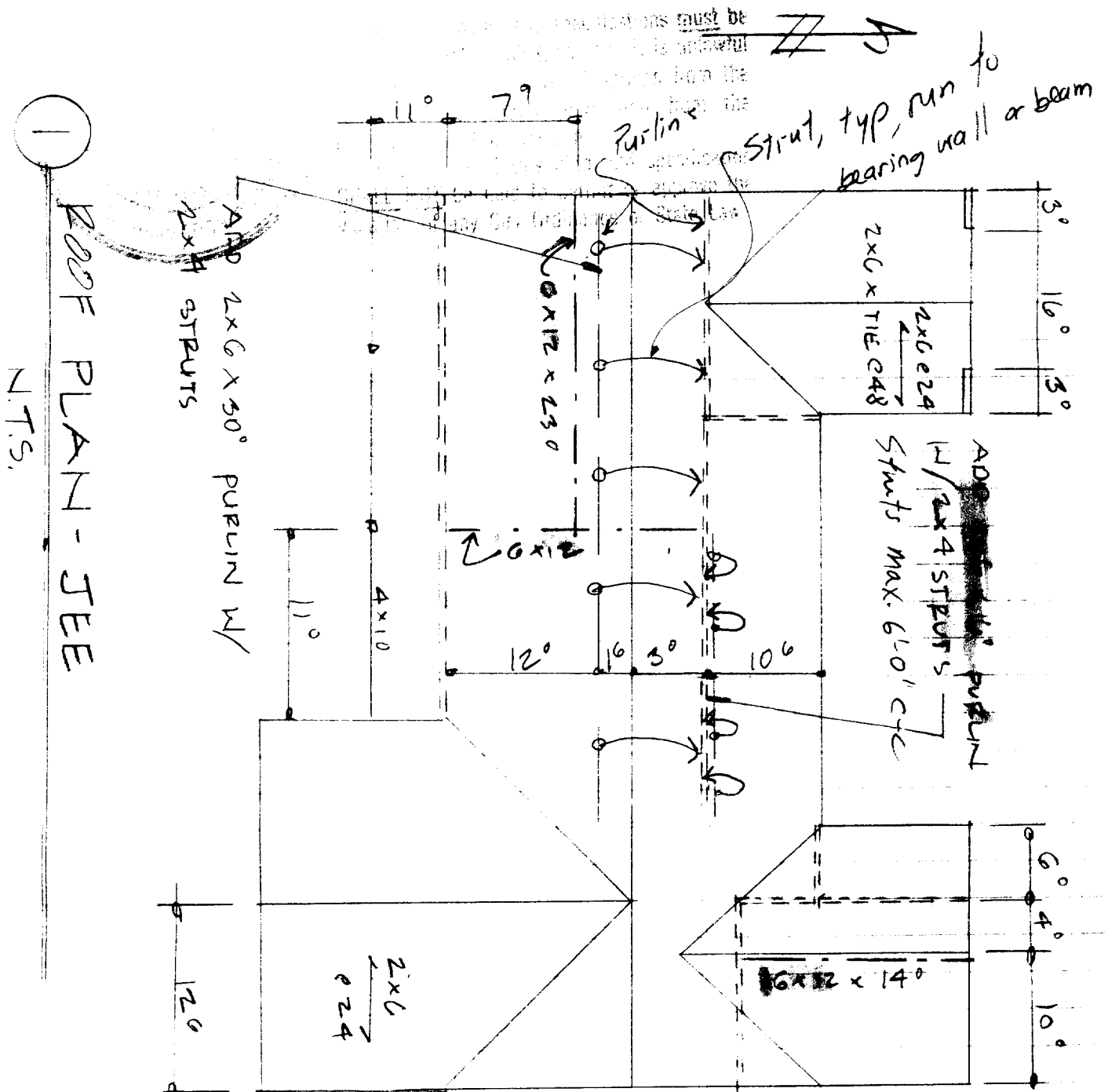
**This worksheet must be filled out whenever any type of tile roof is applied for.**

**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 Pioneer Stroke tile
2. TILE WEIGHT PER SQUARE 730
3. WEIGHT OF ROOF SYSTEM PER SQUARE 180
4. TOTAL WEIGHT OF ROOF SYSTEM 910
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 Report*



per the attached engineering, the max. 2x6 rafter spans are as follows:  
 flat areas - 10.5'  
 pitched areas - 12.5'  
 all beams shown have to be in place.  
 Purlins are required to break rafter span.  
 Reviewed by Matt P. 11/25/98



lee

**Paul Zacher-Structural Engineers**

4701 Lakeside Way  
Fair Oaks, CA 95628

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

October 27, 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 98284: JEE

Subject: Structural Investigation Report of the Roof for the Residence located at 93 Parkshore Circle, 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 October 27, 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 1970'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 Pioneer Light Weight Concrete Tile over 1/2" solid sheathing. The living area is conventionally framed with 2x6 rafters spaced at 24" on center except for the vaulted ceiling areas. The vaulted ceiling is constructed of 2x6 rafters spaced at 24" on center supported at the ridge by a 6x 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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CONCLUSIONS:

Roof:

The living area lackss 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 Add a 2x6 DF#2 x 16'-0" long purlin and a 2x6 DF#2 x 30'-0" long purlin. Support the 2x6 to the bearing walls below with 2x4 struts. 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.

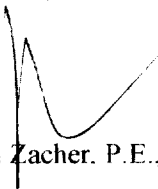
It shall be noted that small hairline cracking may occur at exterior stucco and interior gypboard finished walls which are load bearing or distributing roof strut loads. These cracks are a natural occurrence as the existing structure re-distributes the new roof weight. They are cosmetic in nature and 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>	
Pioneer Light Weight	7.00	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	10.9 psf
	Roof Pitch Adjustment	<u>0.59</u> psf
	Total Load	11.5 psf

LOCATION: VAULT

<u>MATERIAL</u>	<u>WEIGHT</u>	
Pioneer Light Weight	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	1.00	psf
Batt blown insul	0.50	psf
1/2" Gypboard	<u>2.50</u>	psf
	Load	13.9 psf
	Roof Pitch Adjustment	<u>0.75</u> psf
	Total Load	14.6 psf

Title :  
 Dsgnr:  
 Description :

Job #  
 Date:

Scope :

## Timber Beam & Joist

### Description RAFTERS AND BEAMS

#### Timber Member Information

		2x6	2x6 vault	4x10	6x12
Timber Section		2x6	2x6	4x10	6x12
Beam Width	in	1.500	1.500	3.500	5.500
Beam Depth	in	5.500	5.500	9.250	11.500
Unbraced Length	ft	0.00	0.00	2.00	2.00
Timber Grade		Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch
F <sub>b</sub> - Basic Allow	psi	875.0	1,350.0	875.0	1,350.0
F <sub>v</sub> - Basic Allow	psi	95.0	85.0	95.0	85.0
Elastic Modulus	ksi	1,600.0	1,600.0	1,600.0	1,600.0
Load Duration Factor		1.250	1.250	1.250	1.250
Member Type		Sawn	Sawn	Sawn	Sawn
Repetitive Status		Repetitive	Repetitive	No	No

#### Center Span Data

	ft	12.50	10.50	11.00	14.00
Span					
Dead Load	#/ft	21.20	29.20	86.00	102.00
Live Load	#/ft	32.00	32.00	120.00	112.00

Results	Ratio =	1.0083	0.5305	0.5733	0.3085
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M <sub>max</sub> @ Center	in-k	12.47	10.12	37.39	62.92
@ X =	ft	6.25	5.25	5.50	7.00
F <sub>b</sub> Actual	psi	1,648.3	1,338.3	749.1	519.0
F <sub>b</sub> Allowable	psi	1,635.2	2,522.8	1,306.6	1,682.1
		<b>OverStress</b>	<b>Bending OK</b>	<b>Bending OK</b>	<b>Bending OK</b>
F <sub>v</sub> Actual	psi	56.1	53.7	45.4	30.7
F <sub>v</sub> Allowable	psi	118.8	106.3	118.8	106.3
		<b>Shear OK</b>	<b>Shear OK</b>	<b>Shear OK</b>	<b>Shear OK</b>

#### Reactions

@ Left End	DL	lbs	132.50	153.30	473.00	714.00
	LL	lbs	200.00	168.00	660.00	784.00
	Max. DL+LL	lbs	332.50	321.30	1,133.00	1,498.00
@ Right End	DL	lbs	132.50	153.30	473.00	714.00
	LL	lbs	200.00	168.00	660.00	784.00
	Max. DL+LL	lbs	332.50	321.30	1,133.00	1,498.00

#### Deflections

Center DL Defl	in	-0.350	-0.240	-0.077	-0.079
L Defl Ratio		428.6	525.0	1,720.9	2,125.3
Center LL Defl	in	-0.528	-0.263	-0.107	-0.087
L Defl Ratio		284.0	479.1	1,233.3	1,935.5
Center Total Defl	in	-0.878	-0.503	-0.184	-0.166
Location	ft	6.250	5.250	5.500	7.000
L Defl Ratio		170.8	250.5	718.5	1,013.0