

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0317460

Insp Area: 2

Thos Bros: 316 G7

Site Address: 6677 SPURLOCK WY SAC

Parcel No: 030-0020-021

Sub-Type: REP

Housing (Y/N): N

CONTRACTOR

OWNER

AZEVEDO MANUEL H & MARIE A
6677 SPURLOCK WY
SACRAMENTO CA 95831

ARCHITECT

Nature of Work: REROOF WITH STANDARD WEIGHT TILE-TEAR OFF, RESHEET 30SQ

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 _____ License Number _____ Date _____ Contractor 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);

MA 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 11/7/03 Owner Signature [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 11/7/03 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 _____ Policy Number _____ Exp Date _____

MA (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 11/7/03 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.

OWNER-BUILDER VERIFICATION

ATTENTION PROPERTY OWNERS

An owner-builder building permit has been applied for in your name and bearing your signature.

Please complete and return this information in the envelope provided at your earliest opportunity to avoid unnecessary delay in processing and issuing your building permit. No building permit will be issued until this verification is received.

1. I personally plan to provide the major labor and materials for construction of the proposed Improvement (yes or no) _____

2. I (have have not) _____ signed an application for A building permit for the proposed work.

I have contracted with the following person (firm) to provide the proposed construction:

Name _____ Address _____

City _____ Telephone _____

Contractors License No. _____

4. I plan to provide portions of the work, but I have hired the following person to coordinate, Supervise, and provide the major work.

Name T.R.C. Address 2603 California Ave.

City Carmichael Telephone 972-1102

Contractors License No. 468895

5. I will provide some of the work but I have contracted (hired) the following to provide the Work indicated:

Name	Address	Phone	Type of work
<u>T.R.C.</u>	<u>2603 California Ave</u>	<u>972-1102</u>	<u>Struct. Bracing</u>

Signed Mark Azula

Job Address 6677 SPURLOCK WY

Permit No: 0317460

Azevedo

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

TEL: 916.961.3960
FAX: 916.961.6552

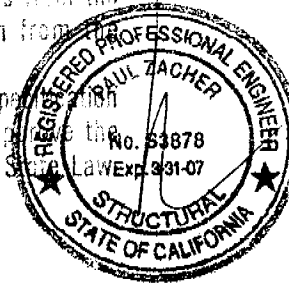
November 4, 2003

Azevedo
6677 Spurlock Way
Sacramento, CA 95831
TEL: (916) 392-3977



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

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



Attn.: Mr. Azevedo,

re: Job 2003548: AZEVEDO

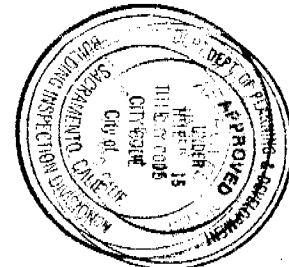
Subject: Structural Investigation Report of the Roof for the Residence located at 6677 Spurlock Way, Sacramento, CA 95831.

As requested by Mr. Azevedo, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site November 3, 2003. 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 with 2001 CBC Title 24 Amendments.

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.



CONSTRUCTION:

Roof:

The roof covering will consist of a Standard Weight Concrete Tile over structure is conventionally framed with 2x4 rafters spaced at 24" on center no more than 6'-0" on center by 2x4 struts bearing on walls below.

CONCLUSIONS:

Roof:

The roof structure currently lacks sufficient structural capacity for the "Recommendations" for location and repair to bring the roof structure

This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division. The approval of this plan and specification SHALL NOT be held to permit or excuse a violation of any City Ordinance or State Law.

CITY COPY

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1997 UNIFORM BUILDING CODE WITH 2001 CBC TITLE 24 AMENDMENTS



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. Scab a 2x4 to existing 2x4 rafters where the span is greater than 7'-5" (total 1). Scab a 2x6 to existing 2x4 rafters where the span is greater than 9'-5" (total 21). Scab a 2x6 to existing 2x8 rafters where the span is greater than 14'-6" (total 5). Notch or remove the existing purlin as required. The rafter to be scabbed to the existing rafter may be held short of the intersecting bearing wall, hip, valley, ridge or purlin by no more than 4". See detail 1.
2. Add a 2x6 DF#2 x 8'-0" long purlin with 2x4 struts to bearing below. See detail 1.
3. Add a 2x6 DF#2 x 13'-0" long purlin with 2x4 struts to bearing below. See detail 1.
4. 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 4'-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.
5. Add 2x4 struts from the existing valley rafter to bearing below (total 1).

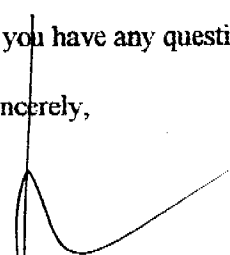
It shall be noted that small hairline cracking may occur at exterior stucco and interior gypboard finished walls that are load bearing or distributing roof strut loads. These cracks are a natural occurrence as the existing structure re-distributes the new roof weight. They are cosmetic in nature and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

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DESIGN LOADING:

Roof Pitch 4 in 12
Pitch Adjustment Factor 1.05

LOCATION: ROOF

<u>MATERIAL</u>	<u>WEIGHT</u>	
Standard Weight Tile	10.30	psf
Roofing felt	0.30	psf
1x4 skip sht'g	1.09	psf
7/16" OSB/ plywood	1.30	psf
2x4 rafters @ 24" oc	<u>0.64</u>	psf
Load	13.6	psf
Roof Pitch Adjustment	<u>0.74</u>	psf
Total Load	14.4	psf

LOCATION: ROOF

<u>MATERIAL</u>	<u>WEIGHT</u>	
Standard Weight Tile	10.30	psf
Roofing felt	0.30	psf
1x4 skip sht'g	1.09	psf
7/16" OSB/ plywood	1.30	psf
2x8 rafters @ 24" oc	<u>1.00</u>	psf
Load	14.0	psf
Roof Pitch Adjustment	<u>0.76</u>	psf
Total Load	14.8	psf

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Job #: 03_548

Date: 11/04/2003

LOADING:

Rafter

Dr = 14.4 psf x 2'-0" = 28.8 plf

2x4 #2

28.8 / 32.0

Lr = 16.0 psf x 2'-0" = 32.0 plf

7'-5"

Rafter

Dr = 14.4 psf x 2'-0" = 28.8 plf

2-2x4 #2

28.8 / 32.0

Lr = 16.0 psf x 2'-0" = 32.0 plf

9'-5"

Rafter

Dr = 14.4 psf x 2'-0" = 28.8 plf

2x4#2 + 2x6 #2

28.8 / 32.0

Lr = 16.0 psf x 2'-0" = 32.0 plf

13'-2"

Rafter

Dr = 14.8 psf x 2'-0" = 29.6 plf

2x8 #2

29.6 / 32.0

Lr = 16.0 psf x 2'-0" = 32.0 plf

14'-6"

Rafter

Dr = 14.8 psf x 2'-0" = 29.6 plf

2x6#2 + 2x8 #2

29.6 / 32.0

Lr = 16.0 psf x 2'-0" = 32.0 plf

17'-3"

B1

Dr = 14.4 psf x 7'-0" = 101 plf

4x12 #2

101 / 112

Lr = 16.0 psf x 7'-0" = 112 plf

15'-0"

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B2

Dr = 14.4 psf x 4'-0" = 58 plf

4x8 #1

Sacramento Building Division 58 / 64

Lr = 16.0 psf x 4'-0" = 64 plf

10'-0"

Paul Zacher - Structural Engr's
 4701 Lakeside Way
 Fair Oaks, CA 95628
 TEL: (916) 961-3960
 FAX: (916) 961-6552

Title :
 Dsgnr:
 Description :

Job #
 Date: 11:13AM, 5 NOV 03

Scope :

Rev: 580100
 User: KW-0602844, Ver 5.6.1, 25-Oct-2002
 (c)1983-2002 ENERCALC Engineering Software

Timber Beam & Joist

c:\documents and settings\paul.zacher\desktop

Description RAFTERS AND BEAMS

Timber Member Information

Calculations are designed to 1997 NDS and 1997 UBC Requirements

Timber Section		rafter 2x4	rafter 2-2x4	rafter 2x4 + 2x6	rafter 2x8	rafter 2x8 + 2x6	B1 4x12	B2 4x8	
Beam Width	in	1.500	3.000	3.000	1.500	3.000	3.500	3.500	
Beam Depth	in	3.500	3.500	4.897	7.250	6.500	11.250	7.250	
Le: Unbraced Length	ft	0.00	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, Douglas Fir - Larch, Douglas Fir - Larch,							
Fb - Basic Allow	psi	875.0	875.0	875.0	875.0	875.0	875.0	1,000.0	
Fv - Basic Allow	psi	95.0	95.0	95.0	95.0	95.0	95.0	95.0	
Elastic Modulus	ksi	1,600.0	1,600.0	1,600.0	1,600.0	1,600.0	1,600.0	1,700.0	
Load Duration Factor		1.250	1.250	1.250	1.250	1.250	1.250	1.250	
Member Type		Sawn	Sawn	Sawn	Sawn	Sawn	Sawn	Sawn	
Repetitive Status		Repetitive	Repetitive	Repetitive	Repetitive	Repetitive	No	No	

Center Span Data

Span	ft	7.42	9.42	13.17	14.50	17.25	15.00	10.00
Dead Load	#/ft	28.80	28.20	28.80	29.60	29.60	101.00	58.00
Live Load	#/ft	32.00	32.00	32.00	32.00	32.00	112.00	64.00

Results

Ratio = 0.8690 0.6934 0.7492 0.9795 0.8623 0.8093 0.3673

Mmax @ Center	in-k	5.02	8.01	15.82	19.43	27.49	71.89	18.30
@ X =	ft	3.71	4.71	6.58	7.25	8.62	7.50	5.00
f _b : Actual	psi	1,639.6	1,308.2	1,319.2	1,478.4	1,301.5	973.7	596.8
F _b : Allowable	psi	1,886.7	1,886.7	1,760.9	1,509.4	1,509.4	1,203.1	1,625.0
		Bending OK	Bending OK	Bending OK	Bending OK	Bending OK	Bending OK	Bending OK
f _v : Actual	psi	59.8	38.2	38.6	56.7	38.6	53.6	31.7
F _v : Allowable	psi	118.8	118.8	118.8	118.8	118.8	118.8	118.8
		Shear OK	Shear OK	Shear OK	Shear OK	Shear OK	Shear OK	Shear OK

Reactions

@ Left End	DL	lbs	106.85	132.82	189.65	214.60	255.30	757.50	290.00
	LL	lbs	118.72	150.72	210.72	232.00	276.00	840.00	320.00
	Max. DL+LL	lbs	225.57	283.54	400.37	446.60	531.30	1,597.50	610.00
@ Right End	DL	lbs	106.85	132.82	189.65	214.60	255.30	757.50	290.00
	LL	lbs	118.72	150.72	210.72	232.00	276.00	840.00	320.00
	Max. DL+LL	lbs	225.57	283.54	400.37	446.60	531.30	1,597.50	610.00

Deflections

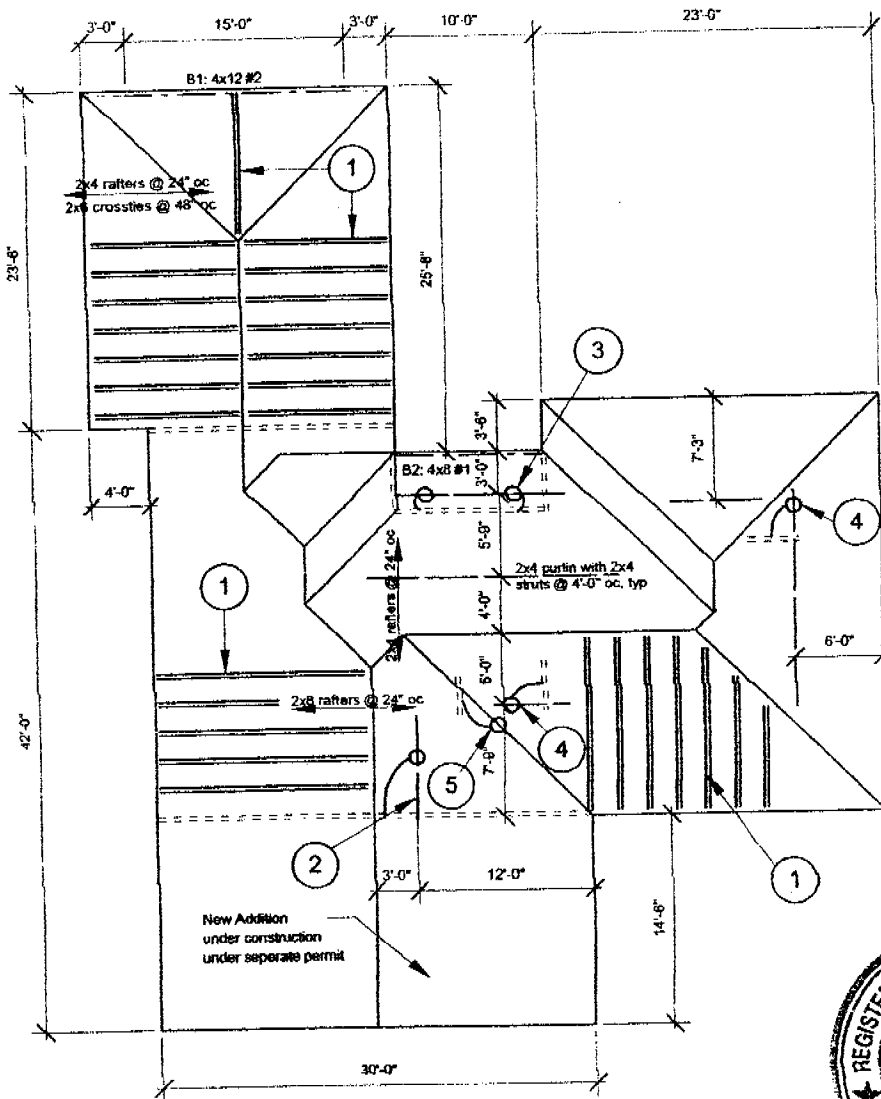
Ratio OK Deflection OK Deflection OK Deflection OK Deflection OK Deflection OK Deflection OK

Center DL Defl	in	-0.229	-0.291	-0.415	-0.386	-0.537	-0.173	-0.069
L/Defl Ratio		388.7	388.0	380.8	450.5	385.6	1,039.6	1,737.5
Center LL Defl	in	-0.255	-0.331	-0.461	-0.418	-0.580	-0.192	-0.076
L/Defl Ratio		349.9	342.0	342.8	416.7	356.7	937.5	1,574.6
Center Total Defl	in	-0.484	-0.622	-0.876	-0.804	-1.117	-0.365	-0.145
Location	ft	3.710	4.710	6.585	7.250	8.625	7.500	5.000
L/Defl Ratio		184.1	181.8	180.4	216.5	185.3	493.0	826.0

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FRAMING NOTES:

1. Scab a 2x4 to existing 2x4 rafters where the span is greater than 7'-5" (total 1). Scab a 2x6 to existing 2x4 rafters where the span is greater than 9'-5" (total 21). Scab a 2x6 to existing 2x8 rafters where the span is greater than 14'-6" (total 5). Notch or remove the existing purlin as required.
2. Add a 2x6 DF#2 x 8'-0" long purlin with 2x4 struts to bearing below.
3. Add a 2x6 DF#2 x 13'-0" long purlin with 2x4 struts to bearing below.
4. Add 2x4 struts from the existing purlin to bearing below (total 2).
5. Add 2x4 struts from the existing valley rafter to bearing below (total 1).

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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 7.3 psf.
- B. All rafters are 2x4 DF#2 and hips and valleys are 2x6 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.

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ROOF PLAN - AZEVEDO

Not to Scale