

THIS IS A 5 PART FORM
WRITE ON A FIRM SURFACE

81-8 REV. 7-95
(20M)

CONSTRUCTION LENDING AGENCY

I hereby affirm under penalty of perjury that there is a construction lending agency for the purpose of the work for which this permit is issued (Sec. 3097, Civ.C.).

Lenders Name _____
Lenders 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 Lic. Number 557557
Date 1-4-99 Contractor Billy Coy (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 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 Professions 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 or 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 or 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 & P.C. 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 of this city to enter upon the abovementioned property for inspection purposes.

Date: 1-4-99 Signature of Applicant or Agent Billy Coy

USE BLACK INK BALL POINT PEN — PRESS FIRMLY

BUILDING SITE ADDRESS

4301 South Land Park Dr.

SUITE

INSP. AREA

2R

ASSESSOR PARCEL NO.

COMMUNITY PLAN NO.

PLAN CHECK NO.

NAME OF APPLICANT

ZIP CODE

PHONE NO.

LICENSED CONTRACTOR

Zimmerman Roofing

PROPERTY OWNER

3500 Lamona Ave.

ZIP CODE

95824

PHONE NO.

454-3447

ARCH. ENGR.

Doug Mack

PROPERTY OWNER

720 Rivercrest Way

ZIP CODE

95821

PHONE NO.

392-0808

NO. OF STORIES

1

NO. OF ROOMS

ROOF COVERED AREA

34

1ST FLOOR TOTAL AREA

GARAGE AREA

PATIO AREA

USE ZONE

STREET WIDTH

THIS PERMIT IS FOR:

BUILDING

MECHANICAL

PLUMBING

ELECTRICAL

SITE

FIRE

OCCUP. GROUP

R3

CONSTR. TYPE

W

FIRE SP.

NATURE OF WORK IN DETAIL

Remove old roof & Re-roof w/ Pioneer tile
4/12 pitch single family residence

FLOOD STATUS

SPECIAL CONDITIONS ATTACHMENTS:

CITY OF SACRAMENTO BUILDING INSPECTION DIVISION PERMIT SERVICES 264-7619

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 Fund
Policy Number 713 98 02021

(This section need not be completed if the permit is for one hundred dollars (\$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: 1-4-99 Applicant: Billy Coy (Signature)

WARNING: FAILURE TO SECURE WORKERS' 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 FEES.

TOTAL \$

FEES \$

THIS PERMIT SHALL EXPIRE BY LIMITATION IS MODIFIED AUTOMATICALLY 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 916-264-7046

Doug Mock
4301 Southland Park Dr
Sacto, CA 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
2. TILE WEIGHT PER SQUARE 595
3. WEIGHT OF ROOF SYSTEM PER SQUARE 180
4. TOTAL WEIGHT OF ROOF SYSTEM 775
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 engin. Report

Mock

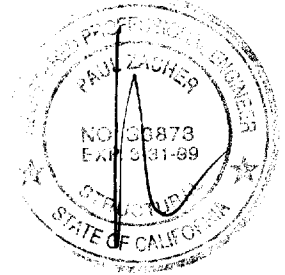
Paul Zacher-Structural Engineers

4701 Lakeside Way
Fair Oaks, CA 95628

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

November 18, 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 98306: MOCK

Subject: Structural Investigation Report of the Roof for the Residence located at 4301 South Land Park Drive, 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 November 18, 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 1960'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 2x4 rafters spaced at 24" on center with 2x4 purlins supported at no more than 4'-0" on center by 2x4 struts bearing on walls below. The garage area is framed with 2x4 rafters spaced at 24" on center and 2x6 cross ties spaced at 4'-0" on center.

CONCLUSIONS:

Roof:

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

Mock

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 2x6 DF#2 purlins with 2x4 struts to the bearing walls below. One purlin shall be 26'-0" long and the other 18'-0" long. See detail 1.
2. Scab a 2x4 rafter to the existing 2x4 rafter with 16d's @ 12" on center where the span is greater than 8'-0".

Garage

3. Scab a 2x4 rafter to the existing 2x4 rafters with 16d's @ 12" on center where the span is greater than 8'-0".
4. Provide a 2x4 strut from the existing purlin to the bearing wall below. The minimum slope of the strut 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.

tile

Title :
 Dsgnr:
 Description :

Date:
 Job #

Scope :

Rev: 510001

Timber Beam & Joist

Page 1

Description RAFTERS AND BEAMS

Timber Member Information

		2x4	2-2x4	6x6
Timber Section		2x4	2-2x4	6x6
Beam Width	in	1.500	3.000	5.500
Beam Depth	in	3.500	3.500	5.500
Le: Unbraced Length	ft	0.00	2.00	2.00
Timber Grade		Douglas Fir - Larch	Douglas Fir - Larch	Douglas Fir - Larch
Fb - Basic Allow	psi	875.0	875.0	1,350.0
Fv - Basic Allow	psi	95.0	95.0	85.0
Elastic Modulus	ksi	1,600.0	1,600.0	1,600.0
Load Duration Factor		1.250	1.250	1.250
Member Type		Sawn	Sawn	Sawn
Repetitive Status		Repetitive	Repetitive	No

Center Span Data

		2x4	2-2x4	6x6
Span	ft	7.75	9.75	14.00
Dead Load	#/ft	23.00	23.00	58.00
Live Load	#/ft	32.00	32.00	80.00

Results Ratio =

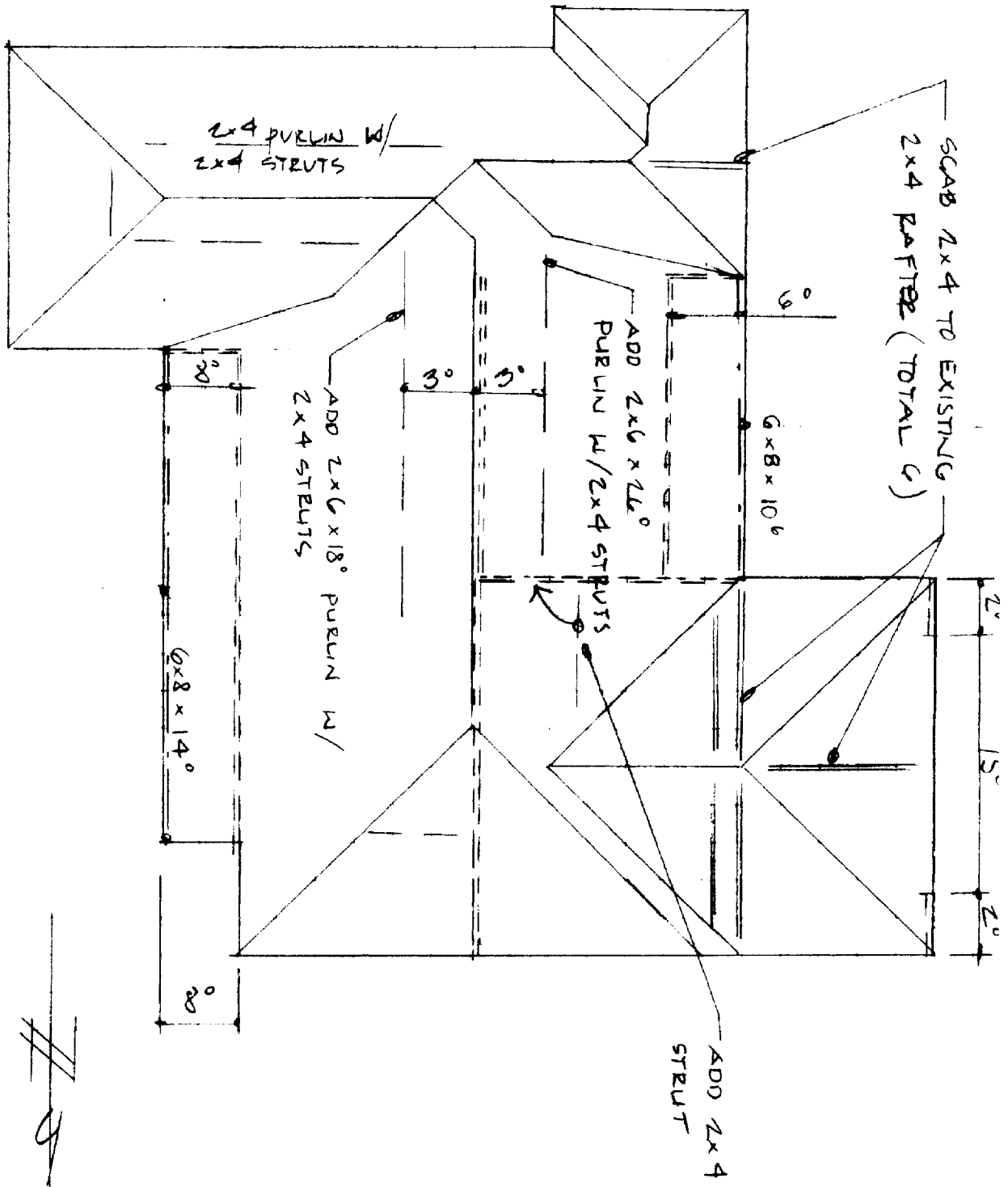
		2x4	2-2x4	6x6
Mmax @ Center	in-k	4.96	7.84	40.57
@ X =	ft	3.87	4.87	7.00
f _b : Actual	psi	1,618.0	1,280.4	1,463.2
Fb : Allowable	psi	1,886.7	1,882.7	1,687.5
		Bending OK	Bending OK	Bending OK
f _v : Actual	psi	56.5	36.2	44.8
Fv : Allowable	psi	118.8	118.8	106.3
		Shear OK	Shear OK	Shear OK

Reactions

		2x4	2-2x4	6x6
@ Left End DL	lbs	89.12	112.12	406.00
LL	lbs	124.00	156.00	560.00
Max. DL+LL	lbs	213.12	268.12	966.00
@ Right End DL	lbs	89.12	112.12	406.00
LL	lbs	124.00	156.00	560.00
Max. DL+LL	lbs	213.12	268.12	966.00

Deflections

		2x4	2-2x4	6x6
Center DL Defl	in	-0.218	-0.273	-0.411
L/Defl Ratio		427.2	429.1	408.9
Center LL Defl	in	-0.303	-0.379	-0.567
L/Defl Ratio		307.0	308.4	296.4
Center Total Defl	in	-0.521	-0.652	-0.978
Location	ft	3.875	4.875	7.000
L/Defl Ratio		178.6	179.4	171.8



1 ROOF PLAN - MOCK
 N.T.S

// B