

CITY OF SACRAMENTO

Permit No: 9901049

1231 I Street, Sacramento, CA 95814

Insp Area: 2

Site Address: 1330 GRANT LN SAC

Sub-Type: RES

Parcel No: 0160301007

Housing (Y/N): N

CONTRACTOR

REACH ROOFING
9300 GERBER RD
SAC CA 95829

OWNER

ADAMS GERALD R/SHARON N
1330 GRANT LN
SACRAMENTO CA 95822

ARCHITECT

Nature of Work: ROOF 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 C-39 License Number 542714 Date 2-3-99 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 2-3-99 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 FUND Policy Number 285-98 U 1054 Exp Date 01/01/2000

(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 2-3-99 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.

SCHOEN ENGINEERING

9524 BEDINGTON WAY
SACRAMENTO, CA 95827
(916) 369 6866
Lic. # C042913

Matt Schoen
EXP. 3/00

January 29, 1999

Tony Cienchetta
Reach Roofing
P.O. Box 292486
Sacramento, California 95829

SUBJECT: Reroof at 1330 Grant Lane, Sacramento, CA 95822

Dear Tony:

On January 29th, 1999 I observed the roof structure of the residence at the above mentioned address. The roof was made up of 2x8 Douglas fir No. 2 rafters @ 2' o.c. with a max. span of 16'-7" in the house and 2x6 rafters @ 2' o.c. with a max span of 10'-9" in the garage. The garage door header was a 4x12 spanning 16'.

The following modifications will be necessary prior to reroofing:

- * In the bedroom wing of the house the two existing ridge braces should be doubled by installing a 2nd 2x4 along side the existing brace and nailing them together with 16d common nails @ 16" o.c. (see attached sketch).

It is my finding that with the above mentioned modification this structure is adequate for the proposed reroof system which is comprised of: Install 1/2" plywood over the existing skip sheathing; 30lb. tarred felt; 1x2 wood battens; Lightweight concrete tile weighing no more than 6 lbs./sq.ft..

Note: It is possible when reroofing that the increased load to structural elements also supporting wall, ceiling and floor finishes could cause some minor cosmetic cracking of these finishes. This is not untypical of a wood framed house and does not necessarily constitute structural inadequacy of these members.

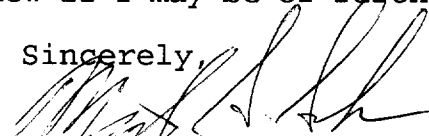
This report deals with the structural adequacy of roof supporting members that were readily observable. It does not address any structure that was covered by wall finishes, buried in the ground or was otherwise not directly observable. These structures were assumed to be of standard construction as called for in the Uniform Building Code. Also, it does not address any existing deflection or warping of roof members. The repair of such deflections to improve architectural appearance, is at the option of the home owner and the roofing contractor.

Reviewed by Matt P. 2/3/99

field check

I would like to thank you for allowing me to provide my services in this matter. Please let me know if I may be of further assistance.

Sincerely,



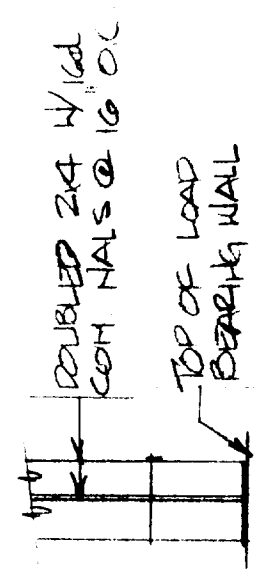
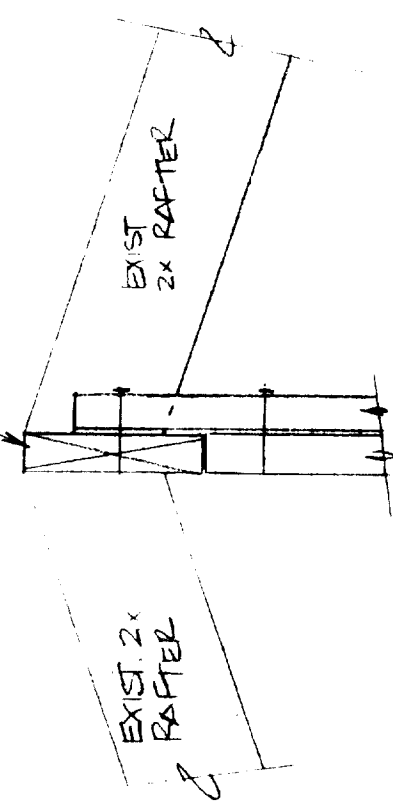
Handwritten signature of Mark S. Schoen in black ink, featuring a stylized, cursive script.

Mark S. Schoen P.E.

MSS:mss

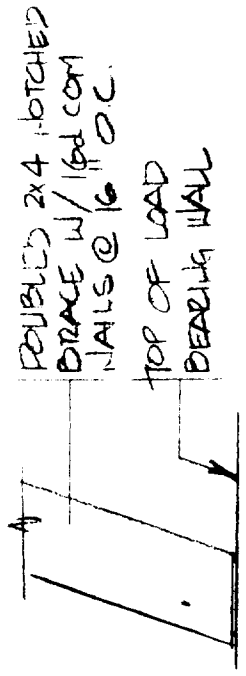
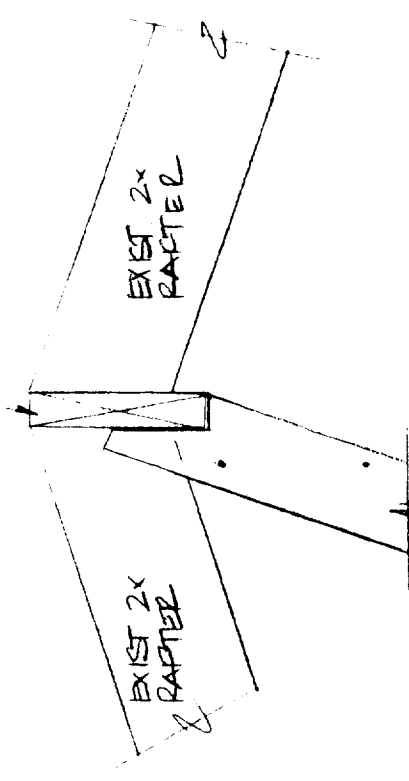
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2x RIGID BEARD



BRACE W/ BEARING WALL
DIRECTLY UNDER RIDGE

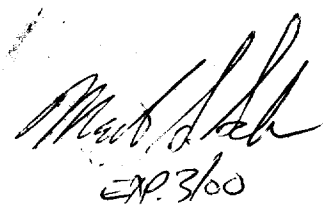
2x RIGID BEARD



NOTCHED BRACE W/ BEARING WALL
DISPLACED TO SIDE OF RIDGE

M. A. Scher
 EXP. 2/00

SCHOEN ENGINEERING



Client: Reach Roofing

Date: 2/1/99

Job No.: RERF0199

Page: _____

Job Title: Reroof at 1330 Grant Lane, Sacramento, CA 95822

Check for adequacy of existing rafters for reroofing with material heavier than the original installation. Lumber grade is Douglas fir no. 2. Building is about 20 years old. 1979 U.B.C. is used

$$E_w = 1700000 \quad F_b = 1450 \quad F_{bp} = F_b \cdot 1.25 \quad F_{bp} = 1812.5$$

(stress increase of 25% is used for live load duration.)

2x8 Douglas fir rafter:

$$b = 1.5 \quad d = 7.25 \quad I_{x2x8} = b \cdot \frac{d^3}{12} \quad S_{x2x8} = b \cdot \frac{d^2}{6} \quad Stiff_{2x8} = I_{x2x8} \cdot E_w$$

Superimposed dead and live loads:

Tile dead load:	DLt = 6	Live load:	LL = 16
Rafter spacing:	sp = 2	Rafter dead load:	Rdl = $\frac{2.64}{sp}$ Rdl = 1.32
Skip shtg. dead load:	skshgt = 1	Plywood dead load:	ply = 1.5
Ceiling dead load:	clg = 0	misl. dead load:	misl = 0
Total roof dead load:	DLtotal = DLt + Rdl + skshgt + ply + clg + msl		DLtotal = 9.82

Check maximum span based on deflection limit of L/240 for rafters w/ceiling
L/180 for rafters w/o ceiling:

(Note: The formula used to calculate allowable span for deflections is based on a two span continuous beam where rafters are continuous over a midspan purlin with live load on one span only and dead load on both spans otherwise it is based on a simple span condition)

$$\text{Load:} \quad w_d = sp \cdot \frac{1}{12} \cdot ((DL_{total}) + LL) \quad w_s = sp \cdot \frac{1}{12} \cdot ((DL_{total}) + LL)$$

$$L_{maxd} = \frac{77 \cdot Stiff_{2x8}}{1 \cdot 180 \cdot w_d} \cdot \frac{1}{12} \quad L_{maxd} = 16.701 > 16.583 \text{ therefore O.K.}$$

Check for maximum span based on stresses:

$$L_{maxs} = \frac{F_{bp} \cdot 8 \cdot S_{x2x8}}{w_s} \cdot \frac{1}{12} \quad L_{maxs} = 17.535 > 16.583 \text{ therefore O.K.}$$



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

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 MONIER CEDARLITE
2. TILE WEIGHT PER SQUARE 560
3. WEIGHT OF ROOF SYSTEM PER SQUARE 150
4. TOTAL WEIGHT OF ROOF SYSTEM 710
5. DOES TOTAL WEIGHT OF ROOF SYSTEM EXCEED 750# PER SQUARE? YES NO
6. ROOF SLOPE 4:12

O.K.
MP

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