

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0108943
Insp Area: 3

Site Address: 7800 ELDER CREEK RD SAC
Parcel No: 040-0061-003

Sub-Type: RES
Housing (Y/N): N

CONTRACTOR
THOMAS HERNANDEZ
8763 HOLLOWSTONE WY
SAC CA

OWNER
RUIZ ORLANDO G/BLANCA I
3140
SACRAMENTO CA 95822

ARCHITECT

Nature of Work: REROOF, TEAR OFF, RESHEET; INSTALL 16-SQ OF LIGHT WEIGHT
FILE

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 License Number 722548 Date 7-13-01 Contractor Signature [Signature]

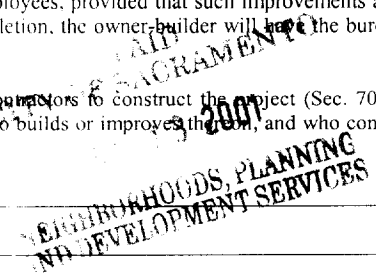
OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code: any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior 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 the project, 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 7-13-01 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 _____

(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 7-13-01 Applicant Signature [Signature]

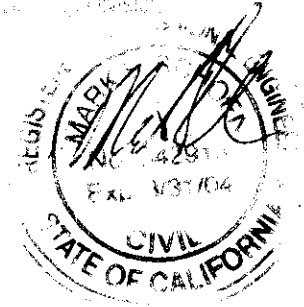
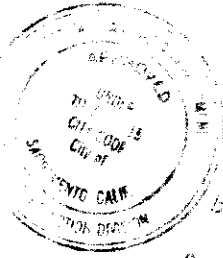
WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

SCHOEN ENGINEERING
9524 BEDINGTON WAY
SACRAMENTO, CA 95827

Licensed by the California State
Board for Engineers and Land Surveyors

(916) 369 6866
LIC.# C042913



Orlando & Bonnie Ruiz
7800 Elder Creek Road
Sacramento, CA 95828

SUBJECT: Reroof at 7800 Elder Creek Road, Sacramento, CA 95828

Orlando,

On June 19th 2001 I inspected the roof structure of your residence at the above mentioned address. The roof was made up of 2x4 D.F. No. 2 rafters @ 2' o.c. with a max. span of 12' in the house and 9'-2" in the converted garage. There was a 4x6 porch beam supporting the entry porch spanning a max of 8'. A section of the central wall about 12' long had been removed that supported some roof and ceiling loads.

The following modifications need to be made prior to reroofing:

- * Along the front slope of the roof and the Southwest corner of the roof the existing 2x4 rafters do not have adequate purlin support and should be doubled with 2x6 D.F. No. rafters run continuous from the plate to the ridge. The new rafters should be attached to the existing rafters with 16d nails @ 16" o.c.(see plan for location).
- * The rafters in the West slope of the garage roof and the king rafter in the North hip of the garage roof should be doubled by with 2x4 D.F. No. 2 rafters run continuous from the plate to the ridge. The new rafters should be attached to the existing rafters with 16d nails @ 16" o.c.(see plan for location).
- * Where the section of wall was removed install a beam made up of 2(two)-1-3/4"x9-1/2" Microlams laminating them together with two rows of 16d nails at 12" o.c.. The beam should be supported at both ends with a 4x4 or double 2x4 post and a 1'-8" square x 1' deep footing(see plan for approx location and sketch for details)

It is my finding that with the above modifications this structure is adequate for the following : 1/2" plywood or OSB installed over the existing skip sheathing, 30lb tarred felt, 1x2 batts; Concrete tile weighing 6 lbs./sq.ft.

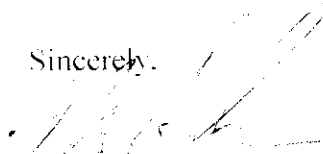
NOTE: it is possible when reroofing that the increased load to structural elements also supporting wall, ceiling and floor finishes could cause some minor cosmetic cracking of these finishes. This is typical of wood framed structures and does not of itself indicate structural inadequacy of these members.

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 observable. Any such structures were assumed to conform to standard construction specifications in the Uniform Building Code. Also, it does not address any existing deflection or warping of roof surfaces, nor is

it guaranteed that any structural modifications that may be listed in this report will remove such deflections or warping. The repair of such deflections or warping to improve architectural appearance is at the option of the building owner and the roofing contractor.

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,

A handwritten signature in black ink, appearing to read 'Mark S. Schoen', written over a faint horizontal line.

Mark S. Schoen P.E.

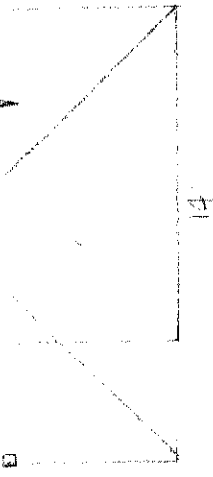
MSS:mss

SEP 14 10:08AM Q&BR001

7200 K...
SAC...
A...



Handwritten text, possibly describing a slope or angle.



45

Handwritten notes and calculations, including a vertical arrow pointing down.

Handwritten notes and calculations.

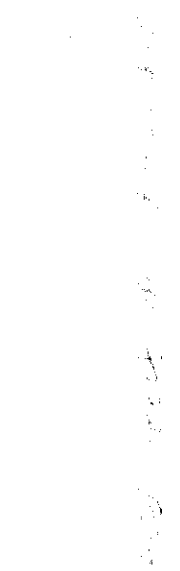
11/11



NOTE 4x4 W/ 4 #4 BEING USED
FOR TIE BARS. FIELD REINFORCEMENT
TO INCLUDE THE BEAM BUT
IT WOULD BE CHECKED THAT

11/11

11/11



CONC. WALL

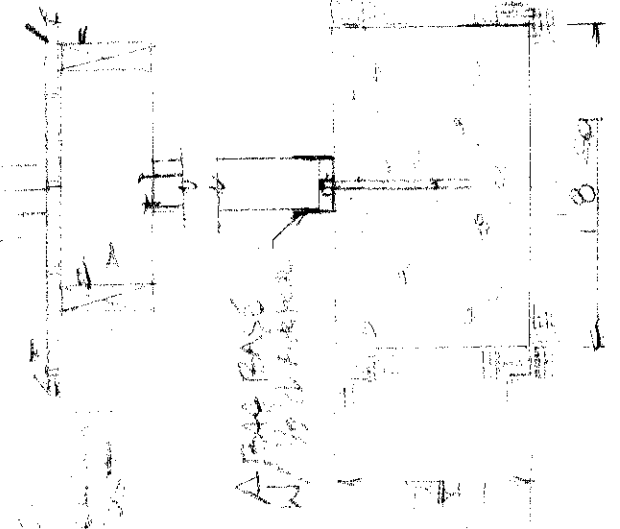
6 #4 WALL BARS

4x4 P.T. POST TO BRACE
W/ 4 #4 TIE BARS

BEAM NOT A PART OF THE
REINFORCED WALL SECTION

DETAIL W/ 4 #4 BARS
TIES W/ BEAM

CONC. WALL



APPROX BEAM
W/ 4 #4 BARS

POST W/ 4 #4 BARS

4x4 POST W/ 4 #4 BARS

Calculation for the required section modulus and moment of inertia for simple span wood beams. Dead load(dl) and Live load(ll) are in pounds per square ft., Spans(l) and Tributary load length or spacing(sp) are in ft., Section moduli are in inches cubed and Moments of inertia are in inches to the 4th power. Allowable stress (Fy) is in lbs./sq.in. per Manufacturer's specifications. Section modulus shape factor reduction and load modification are per U.B.C. 1997 edition.

MICROLAM BEAM AT REMOVED WALL SECTION:

rdl := 15 rll := 16 rta := 12 l := 12
 fdl := 8 fl := 40 fta := 0 rta · l = 144
 $Wdl := 9.5 \cdot \frac{l^2}{144} \cdot 15$ $Wdl = 8.082$ $F := 1900000$ $Fb := 2600 \cdot 1.25$
 $w := rta \cdot (rdl + rll) + fta \cdot (fdl + fl) + Wdl$



S min. required = $(wt) \cdot l^2 \cdot \frac{1.5}{Fb} = 25.261$

I min. required = $5 \cdot (wt) \cdot \frac{(1 \cdot 12)^4}{12 \cdot 384 \cdot E \cdot l \cdot \frac{12}{240}} = 155.553$

Use 2(TWO)-1-3/4"x9-1/2" MicroLam beams

$w = 3.5$ $d = 9.5$ $Cf := \frac{12}{d}^{\frac{1}{9}}$
 $S = Cf \cdot w \cdot \frac{d^3}{12}$ $I = w \cdot \frac{d^4}{12}$

S = 54.03 > 25 I = 250.068 > 156 Therefore 2(two)-1-3/4"x9-1/2" MLB is O.K.

Reaction at ends of beam $w \cdot l = 2380.49$

FOUNDATION FOOTINGS AT ENDS OF BEAM

Footing design based on '97 UBC chapter 18 section 1805 and Table No. 18-I-A. Site soils are comprised mostly of clays. Therefore a q=1000 lb/sq.ft. will be used for design with a 20% increase for each additional foot of depth beyond 1ft. deep (depth referred to is depth below existing or engineered grade). Values given are in lbs. Length(l), Width(w) and Depth(d) are in feet

Allowable load for a spread footing 1'-8"x1'-8"x1' deep:

$l = 1.67$ $w = 1.67$ $d =$ $q := 1000 \cdot 1.2^{d-1} = d \cdot 150$

$vol = l \cdot w \cdot d$ $vol = 2.789$ $q \cdot l \cdot w = 2370.565 > 2280$ Therefore O.K.