

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0502001

Insp Area: 2

Thos Bros: 336H3

Site Address: 7676 HOWERTON DR SAC

Parcel No: 031-1110-012

Sub-Type: RES

Housing (Y/N): N

CONTRACTOR

ZIMMERMAN REROOFING CO.
3675 R ST
SACRAMENTO CA 95816

OWNER

SWAIN RAY/SUSAN
7676 HOWERTON DR
SACRAMENTO, CA 95831

ARCHITECT

Nature of Work: TEAR OFF, RESHEET & REROOF 30 SQ LT WT TILE FOR SFR W/ GAR

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 C39 License Number 763169 Date 2-14-05 Contractor Signature Kate Or

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 herby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 2-14-05 Applicant/Agent Signature Kate Or

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.

KD 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 713-0002021 Exp Date 10/01/2005

(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 2-14-05 Applicant Signature Kate Or

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.

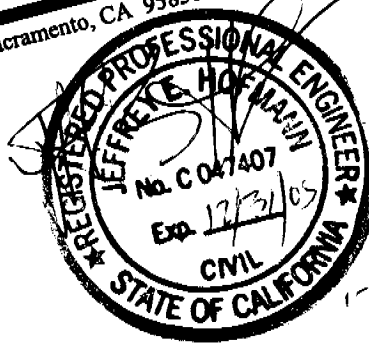
7676 HOWERTON DR.

Infinity Engineering, Inc.

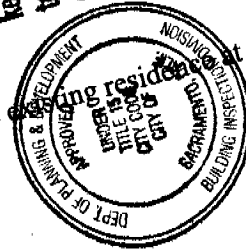
2150 Bell Ave., Suite 145 • Sacramento, CA 95838 • (916) 646-1760 • Fax: (916) 646-1761

January 26, 2005

Jeff Shulman
Zimmerman Re-Roofing, Inc
3675 R Street
Sacramento, CA 95816



This set of plans and specifications must be kept on the job at all times and shall not be altered or changed in any way without written permission from the Building Inspection Division. The approval of this plan and specification shall NOT be held to permit or violation of any City Ordinance of State.



RE: Roof framing inspection for placement of Light Weight Tile (7.3 psf) on the Swain Residence, 7676 Howerton, Sacramento, CA.
This inspection and report is Our Job#05-127.

Dear Mr. Shulman,

As requested, on January 25, 2005, I performed a visual inspection of the existing roof framing at the aforementioned residence. The purpose of the inspection was to determine if the existing roof framing was structurally acceptable for the placement of a light weight tile (7.3 psf installed weight) to replace the existing wood shake.

The existing residence is a 1 story single family dwelling with the standard living areas and an attached garage. Attached is a sketch of the roof plan showing the dimensions of the exterior walls (Attachment 1 of 3).

In general the existing roof framing on the structure was in good condition and consisted of wood shake over 1x skip sheathing over Trusses at 24" c.c.. The 2x4 truss top chords had a maximum horizontal span of 8'-0", except at the garage where the five of the trusses have 2x4 top chords that have a horizontal span of 10'-3".

The top chords of the five trusses over the garage where the top chord spans 10'3" must be reinforced. Basically, a 2x6 #2 DF must be nailed to the side of the top chords with 16d Sinkers @ 6" c.c.. Please see the details on Attachment 1 of 3.

Please note that the repairs to the trusses should occur after the existing wood shake and felt has been removed and before the new 15/32" sheathing and tile is placed.

Attachments 2 and 3 of 3 contains the calculations regarding the acceptability of the existing framing and the reinforcement of the 2x4 truss top chords with a span over 8'.

Thus, assuming that the aforementioned repair work is completed, it is my professional opinion that the placement of a light weight tile (7.3 psf installed weight) and 15/32" sheathing to replace the existing wood shake is structurally acceptable.

Please note that additional settlement of the roof framing and cosmetic cracking in the ceiling

ISSUED

FEB 14 2005

Sacramento Building

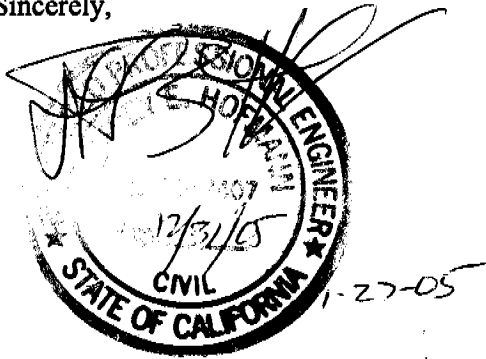
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Jeff Shulman
Zimmerman Re-Roofing, Inc.
Page 2
January 27, 2005

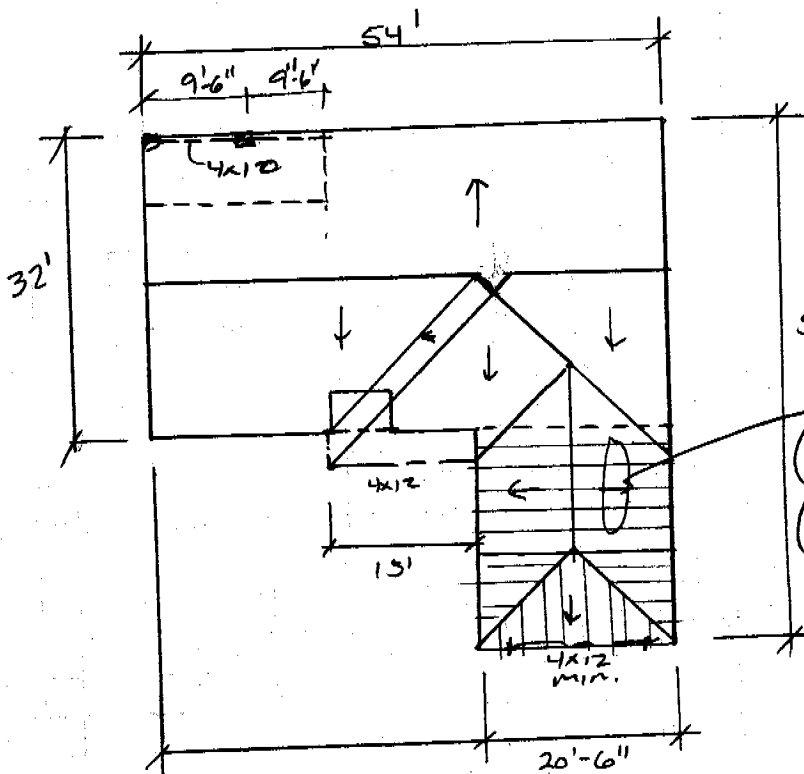
visible differential deflection in the roof may occur due to the work being performed on the roof and the slightly higher weight of the tile roof covering. It is the owners responsibility to determine if the possibility of these occurring is acceptable to them.

If you have any questions or need further clarification on these matters please feel free to contact me at (916) 646-1760.

Sincerely,



Jeffrey E. Hofmann, P.E.
President of General Partner, Hofmann Management Inc.

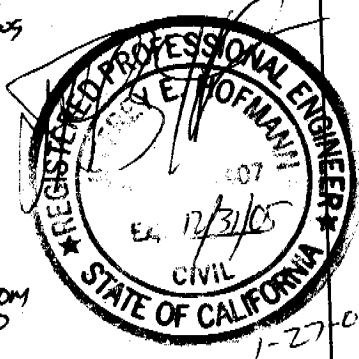
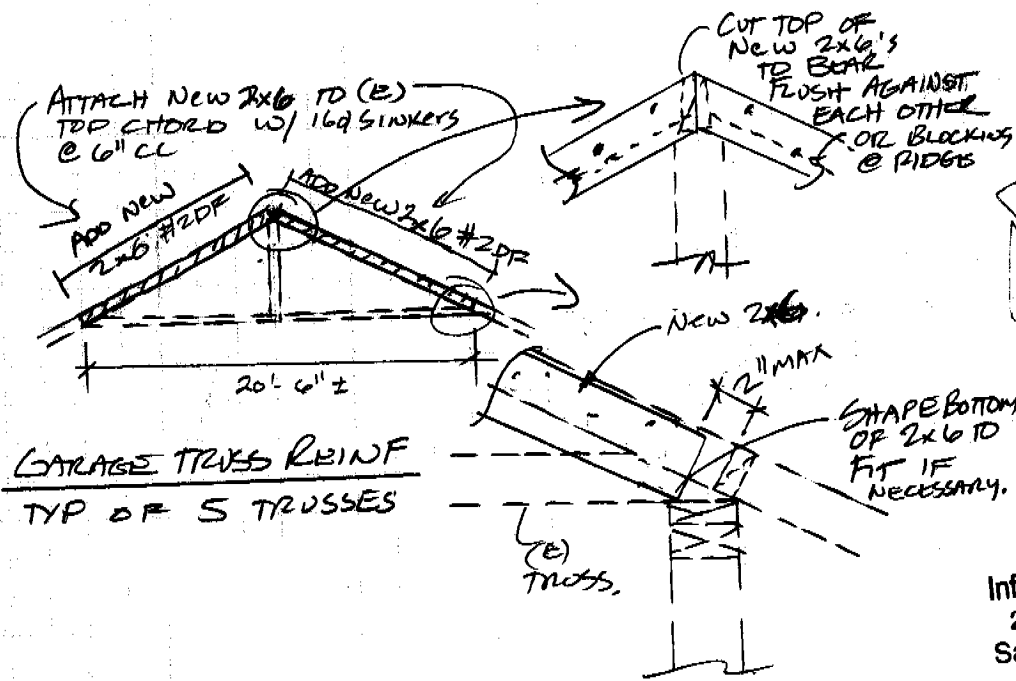


54'-3"
ADD 2x6 #2DF (E) TOP CHORDS THESE (5) TRUSSES BOTH SIDES OF RIDGE.
- ATTACH W/ 16d SINKERS @ 6" CL.
TO (E) TRUSS TOP CHORD.
- SEE DETAIL BELOW

SKETCH OF ROOF PLAN (1" = 20' ±)
7676 HOWERTON, SAC

(E) ROOF: WOOD SHAKE OVER 1X SKIP OVER TRUSSES @ 24" CL

(N) ROOF: LT WT TILE OVER 1 5/32" SHK OVER 1X SKIP OVER TRUSSES @ 24" CL



Infinity Engineering, L.P.
2150 Bell Ave., #145
Sacramento, CA 95838

DETERMINE NEW DEAD LOAD TO TRUSS TOP CHORDS11.0 PSF = TOTAL DEAD LOAD

7.3 PSF = LIGHT WT TILE, (7.3 PSF INSTALLED WT)
 0.3 PSF = 30 # FELT
 1.3 PSF = 7/16" SHTG
 1.25 PSF = (E) 1x SKIP SHTG OR 3/8" SHTG
 0.65 PSF = 2x4 (TOP CHORD) @ 24" CC
 0.2 PSF = MISC

∴ WT OF NEW ROOF CONFIGURATION IS ≈ THE
 NORMAL DESIGN WEIGHT FOR ROOF
 - EXISTING FRAMING IS ACCEPTABLE

CHECK MAX SPAN OF (E) 2x4 TRUSS TOP CHORD

NOTE: HOUSE BUILT PRIOR TO 1994 UBC THUS OLDER
 WOOD ALLOWABLE STRESSES APPLICABLE.

#2DF → $F_v = 95 \text{ PSI}$ $f_b = 1450 \text{ PSI (RCP)}$ $E = 1.7 \times 10^6 \text{ PSI}$
 2x4 → $A = 5.25 \text{ IN}^2$ $S_x = 3.06 \text{ IN}^3$ $I = 5.36 \text{ IN}^4$

ACTUAL MAX SPAN OF TOP CHORD = 7'-3"

$W_{TL} = 2'(16+11 \text{ PSF}) = 54 \text{ PLF}$

SHEAR $V_{ALL} = \frac{5.25 \text{ IN}^2 (95) (1.25)}{1.5} = 416 \#$

$l_{MAX} = \frac{2(416)}{2'(16+11)} = 15'-4" = l_{MAX} \text{ (SHR)}$

BENDING $M_{ALL} = \frac{3.06 \text{ IN}^3 (1450 \text{ PSI}) (1.25)}{12} = 462 \text{ Lb-ft}$

$l_{MAX} = \sqrt{\frac{8(462)}{54}} = 8'-3" = l_{MAX} \text{ (BEND)}$

DEFLECTION: $\Delta_{ALL TL} = \frac{L}{180}$ $\Delta_{ALL LL} = \frac{L}{240}$ (NO CEILING ATTACHMENT)

(TOTAL LOAD CONTROLS)

$\Delta_{ALL} = \frac{L(12)}{180} = \frac{5(54)(L)^4 (1728)}{384 (1.7 \times 10^6) (5.36)}$

$l_{MAX} = \sqrt[3]{\frac{12(384)(1.7 \times 10^6)(5.36)}{180(5)(54)(1728)}} = 7.93' \approx 8'$

∴ ALLOWABLE MAX SPAN OF 8' EXCEEDS MAXIMUM ACTUAL
 SPAN OF 5'-6" - THUS TRUSSES OK.



CITY OF SACRAMENTO
 PLANNING & BUILDING DEPARTMENT
 BUILDING DIVISION
 www.cityofsacramento.org

Help Line: 1-916-264-5656 OR 1-866-EZ-PERMIT
 Inspection: 1-916-808-4677



Downtown Permit Center 1-916-264-6807
 1231 I Street, Suite 200, Sacramento, CA 95814

North Permit Center 1-916-808-2354
 2101 Arena Blvd., Suite 200, Sacramento, CA 95834

PRELIMINARY RESIDENTIAL APPLICATION

1-916-264-5656 OR 1-866-EZ-PERMIT

7676 Howerton Drive		2R
BUILDING SITE ADDRESS	SUITE	INSP. AREA
031-1110-012		0502001
ASSESSOR'S PARCEL NO.	COMMUNITY PLAN NO.	PLAN CHECK NO.

NAME OF APPLICANT	ADDRESS	ZIP CODE	PHONE NO.
LICENSED CONTRACTOR			
Zimmerman Re-Roofing, Inc	3675 R Street	95816	454-3667
CONTRACTOR'S LICENSE NO.	763169		
PROPERTY OWNER			
Ray & Susan Swain	7676 Howerton Dr.	95831	421-0674
ARCHITECT/ENGINEER			
N/A			

No. of Stories	No. of Rooms	Roof Covering	Area 1 st Floor	Total Area	Garage Area	Patio Area
1				307		

THIS PERMIT IS FOR:
 BUILDING MECHANICAL PLUMBING ELECTRICAL SITE FIRE

NATURE OF WORK IN DETAIL
 Tear off Shakes & Re-roof w/ Eaglelite Ponderosa shake style tile, single family residence, roof pitch 4/12.

\$ 13,500.00
 VALUATION