

CITY OF SACRAMENTO

Permit No: 0607557

1231 I Street, Sacramento, CA 95814

Insp Area: 4

Thos Brös: 277J6

Site Address: 2643 LEXINGTON ST SAC

Sub-Type: RES

Parcel No: 265-0301-002

Housing (Y/N): N

CONTRACTOR

VALLEY CONSTRUCTION

P.O: BOX 5307

EL DORADO HILLS, CA 95762

OWNER

MARTINEZ LAZARO A

PO BOX 401

W SACRAMENTO, CA 95691

IN PROGRESS INSPECTION REQUIRED

Nature of Work: T/O RESHEET INSTALL 16 SQ LIGHT WEIGHT TILE - 1 STORY

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.

X License Class C39 License Number 674523 Date 5/24/06 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.

X Date 5/24/06 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.

X 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 229-0022752 Exp Date 01/01/2007

(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.

X Date 5/24/06 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.



**CITY OF SACRAMENTO**  
**PLANNING & BUILDING DEPARTMENT**  
 BUILDING DIVISION

www.cityofsacramento.org  
 Help Line: 1-916-808-5656 OR 1-866-EZ-PERMIT  
 Inspection: 1-916-808-7622



Fax # 916-808-1901      Downtown Permit Center, New City Hall  
 915 I Street, 3<sup>rd</sup> Floor, Sacramento, CA 95814

North Permit Center  
 2101 Arena Blvd., Suite 200, Sacramento, CA 95834      Fax # 916-808-8370

Activity # 0607557      **FAXED PERMIT APPLICATION**      Date: 5/24/06  
 (certain restrictions apply)

*Faxed request must be received in this office by 3:00 P.M. to be processed the following workday.  
 Note: Contractors must have a current certificate of Worker's Compensation Insurance.*

*Note: Work started before a Building Permit is issued will be subject to a surcharge.*

**IN ORDER TO PROCESS THIS REQUEST, ALL THE FOLLOWING INFORMATION MUST BE PROVIDED:**

RESIDENTIAL     APARTMENTS (4+ units per building)     COMMERCIAL (limited)  
 Job Address: 2643 LEXINGTON ST    Unit # 1    Contract Price \$ 7,500  
 Contact Person: [Redacted]    Contact Phone: 916) 879-6312  
 Property Owner: Alex Martinez    Contractor: Vally Construction License # 674523  
 Address: 2643 LEXINGTON ST    Address: P.O. Box 5307  
 City/State/Zip: Sacramento CA    City/State/Zip: El Dorado Hill CA 95762  
 Phone: 916) 541-7314    Phone: 358-5810    Fax: \_\_\_\_\_

Nature of Work: (Provide detailed description of work & indicate type of work in selections below).  
 Description of Work: Relocate 30 year Com. Dry - 2 by 4 file

<input checked="" type="checkbox"/> Reroof (excluding tile) <input checked="" type="checkbox"/> Tear-Off <input checked="" type="checkbox"/> Resheet <input type="checkbox"/> House <input type="checkbox"/> Garage # Stories: <u>1</u> # Squares: <u>16</u> Material: <input type="checkbox"/> Siding <input type="checkbox"/> Wood <input type="checkbox"/> T-111 <input type="checkbox"/> Horiz <input type="checkbox"/> Vinyl <input type="checkbox"/> Stucco *Design Review approval may be required.	<input type="checkbox"/> HVAC Installations (Residential Only) <input type="checkbox"/> Change-out <input type="checkbox"/> New <input type="checkbox"/> Heat Pump <input type="checkbox"/> Package <input type="checkbox"/> Split system <input type="checkbox"/> Roof mount <input type="checkbox"/> Cut-in <input type="checkbox"/> Heat pump or elect. unit to gas. <input type="checkbox"/> Wall furnace <input type="checkbox"/> Other (describe below) Value of duct work: \$ _____ Equipment: \$ _____ Cut-in: \$ _____ *Design Review approval may be required.	<input type="checkbox"/> Water Heater (Residential Only) <input type="checkbox"/> Gas <input type="checkbox"/> Electric <input type="checkbox"/> Change-out <input type="checkbox"/> Electric to Gas <input type="checkbox"/> Relocate <input type="checkbox"/> New <input type="checkbox"/> Dry Rot or Termites <input type="checkbox"/> Damage Repair (Describe Locations Below) *Design Review approval may be required.	<input type="checkbox"/> Minor Electric and/or Minor Plumbing (Residential Only) <input type="checkbox"/> Electric Service Change # amps <input type="checkbox"/> New electric circuits <input type="checkbox"/> Re-wire <input type="checkbox"/> Water Service Replacement <input type="checkbox"/> Sewer Service Replacement <input type="checkbox"/> Gas Line Replacement <input type="checkbox"/> Re-plumb <input type="checkbox"/> Water <input type="checkbox"/> Waste	<input type="checkbox"/> Public Utilities Safety Inspection (Residential and single apartment units Only) <input type="checkbox"/> SMUD <input type="checkbox"/> PG&E ♦ NOTE: Correction Notice items will require an additional building permit.
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0607557

# ∞ Infinity Engineering, L.P. ∞

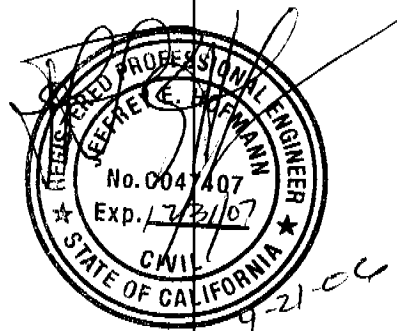
9198 Greenback Lane, Suite 200 • Orangevale, CA 95662 • (916) 987-0839 • Fax: (916) 987-7669

April 21, 2006

Jorge Vasquez  
Valley Construction

**ISSUED**  
City of Sacramento

MAY 24 2006  
NORTH PERMIT  
CENTER



RE: Roof framing inspection for placement of Light Weight Tile (6 psf - max) on the existing framing at 2643 Lexington St., Sacramento, CA.  
This Inspection and report is Job#06-192.

**Purpose of Inspection:**

As requested, on April 21, 2006, 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 (6 psf max. installed weight) to replace the existing one layer of wood shake and one layer of composition shingles.

**Observations & Comments:**

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

The existing roof framing on the structure was in decent condition and consisted of composition shingles over wood shake over 1x skip sheathing over 2x4 rafters, at 24" c.c.. The 2x4 #2 DF rafters had a maximum horizontal span of 6'-6" based on the location of the purlin. However, the existing 2x4 purlin is not adequately braced (i.e. vertical brace to interior walls below - no kickers at a 45 degree). Thus, there is substantial sag in the rafters that are not oriented over or adjacent to the parallel interior walls. See recommendations below for the repair.

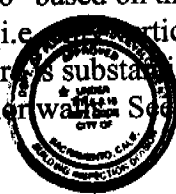
Attached calculations (see Attachments 2 of 3) show the new dead load to the roof and check the allowable horizontal span of the new 2x6 rafters called for in the recommendations. The Front porch beam is 2-2x4's spanning 10'-6 maximum with a 2'-2" roof tributary. This beam is checked on Attachment 3 of 3. See recommendations below for the reinforcement.

**Recommendations:**

- 1) Remove all layers of existing roof covering.
- 2) **Reinforcement of Existing Rafters** - Place a new 2x6 #2 DF Rafter adjacent to each existing 2x4 rafter in the areas with the existing sag. The rafters that are directly over

FIELD VERIFY ENGINEER RECOMMENDATIONS  
6 PAGES

CITY'S COPY



This set of plans and specifications must be kept on the job site with the contractor. No changes or alterations from the same without written permission from the City of Sacramento. The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.  
Approved By: *[Signature]* 5-24-06

parallel wall below (i.e. at the high spots in the roof), do not need a 2x6 placed to reinforce it. The new 2x6 rafters should be nailed to the existing rafters with 16d Sinkers @ 6" c.c.. The new rafters should be placed such that they are snug against the ridge. The new rafters may be ripped at the bottom end (over the exterior wall) such that they match the depth of the existing rafters. Also, 2x4 collar ties should be placed at 48" c.c. and should be connected to the new 2x6 rafter at each end with (4) 16d Sinkers. Please see the notes on the Sketch of the Roof Plan (Attachment 1 of 3).

- 3) **Reinforcement of the Front Porch Beam** – A new 2x4 #1 DF should be nailed to the inside edge of the existing 2-2x4 porch beam. It should be attached with 16d Sinker at 6" c.c. staggered top and bottom. If there are any joints in the new 2x4 they should be located over on of the existing posts. Please see note on the Sketch of the Roof Plan (Attachment 1 of 3).
- 4) Place 7/16" (min) APA Rated 24/16 sheathing over the existing 1x skip sheathing.
- 5) Place new felt and install the light weight tile per the manufactures recommendations.

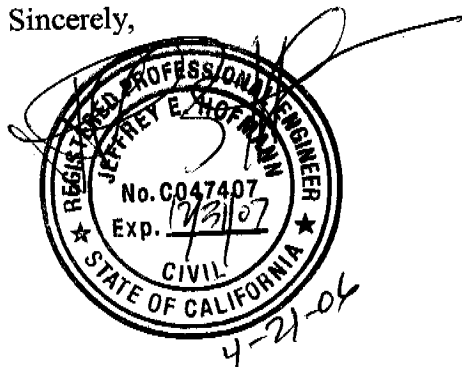
**Conclusion:**

Assuming that the aforementioned recommendations are completed, it is my professional opinion that the placement of a light weight tile (6.0 psf max. installed weight) and 7/16" (min) sheathing, over the existing 1x skip sheathing and framing is structurally acceptable.

Please note that even if the recommendations above are followed, additional settlement of the roof framing and cosmetic cracking in the ceiling areas, may occur due to the work being performed on the roof and the additional weight of the new tile roof covering. It the responsibility of the owner to determine if the possibility of these occurring is acceptable.

If you have any questions or need further clarification on these matters please feel free to contact me at (916) 987-0839.

Sincerely,

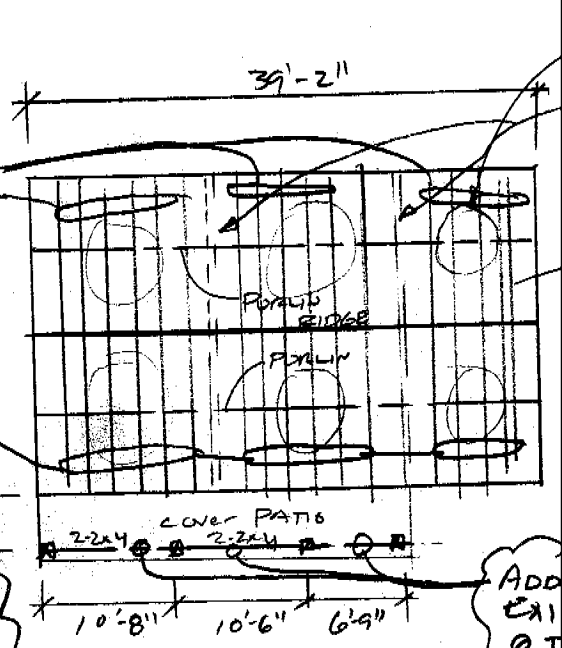


Jeffrey E. Hofmann, P.E.  
President of General Partner, Hofmann Management Inc.

CITY OF SAN JOSE  
MAY 2 1 2006  
NEIGHBORHOOD  
AND DEVELOPMENT

STAEDTLER® No. 937 811E  
Engineer's Computation Pad

ADD NEW 2x6 #2DF  
TO EACH EXISTING  
2x4 RAFTER  
NAIL TO EXISTING  
RAFTER W/  
16d @ 6" CC  
-ADDITIONAL  
2x6 RAFTERS  
DO NOT NEED  
TO BE ADDED TO  
THE RAFTERS  
THAT ARE BRACED  
TO THE EXISTING  
WALLS (I.E. THE  
HIGH SPOTS OR  
THE ROOF)



EXISTING AREAS W/SAF  
INTERNAL WALLS  
ADD 2x4 COLLARS  
@ 48" CC  
NEW 2x6  
RAFTERS  
-NAIL W/  
(4) 16d @ EACH  
END

ADD NEW 2x4 #1DF TO THE  
EXISTING 2x4 HEADER  
@ THE FRONT PORCH,  
-NAIL W/ 16d @ 6" CC  
TO EXISTING HEADER  
-ANY JOINTS TO BE  
CENTERED OVER POST

SKETCH OF ROOF PLAN  
(-1" = 15')

PAID  
CITY OF SACRAMENTO  
MAY 24 2006  
NEIGHBORHOODS  
AND DEVELOPMENT



INFINITY ENGINEERING, L.P.  
9198 GREENBACK LANE, #200  
ORANGEVALE, CA 95662

JEH

4/21/06

RE ROOF @  
2643 LEXINGTON ST

06-192

ATTACH  
3/3

**Determine New Dead Load to Rafters or Truss Top Chord**

<b>10.0 = New Total Dead Load, PSF</b>
6.00 PSF = LIGHT WEIGHT TILE
0.30 PSF = 30# FELT
1.41 PSF = 15/32" SHEATHING
1.25 PSF = (E) 1X SKIP SHEATHING
0.70 PSF = TOP CHORD OR RAFTER - 2X4 @ 24" C.C.
0.30 PSF = MISC

**Check Maximum Span of (N) 2x6 Rafter or Truss Top Chord**

#2 DF => Fv = 95                      Fb = 1308.125 (rep&size)                      E = 1600000  
 2x6 => A = 8.25                      Sx = 7.5625                      Ix = 20.797  
 LDF = 1.25  
 LL = 16 psf

24 = Rafter Spacing, in  
 52 = w(tl), plf                      32 = w(ll), plf

**For Shear ....**

653 = V(all), #, { (A\*Fv\*LDF)/1.5 }                      25.16 = L(max), Ft, { (2\*V(all))/(w(tl)) }

**For Bending ....**

1030 = M(all), #, { (Sx\*Fb\*LDF)/(12) }                      12.60 = L(max), Ft, { ((M(all)\*8)/(w(tl)))^0.5 }

**For Deflection .... Defl (tl) = L/180    Defl (LL) = L/240 - No Ceiling Attached**

TL =>  $L*12/180 = (5*w(tl)*L^4*1728) / (384 * E * Ix)$   
 12.38 = L(max), Ft, { ((12\*384\*E\*Ix)/(180\*5\*w(tl)\*1728))^0.25 }

LL =>  $L*12/240 = (5*w(tl)*L^4*1728) / (384 * E * Ix)$   
 13.22 = L(max), Ft, { ((12\*384\*E\*Ix)/(240\*5\*w(tl)\*1728))^0.25 }

CITY OF ... PAID  
 MAY 24 2006  
 NEIGHBORHOOD ...  
 AND DEVELOPMENT

Thus the maximum allowable span of the existing 2x6 Rafters or Truss Top Chord is **12.38** feet with the new tile roof

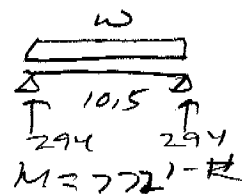
CHECK HEADER @ FRONT PATIO COVER.

- EXISTING IS 2-2x4

SPAN = 10'-6" MAX

$$W_{req} = \frac{4.33}{2} (6+10) = 56 \text{ PLF}$$

$$REQ'D A = 1.5(294) / 95(1.25) = 3.71 < 5.25 \text{ OK}$$



$$d_{req} = 0.70'' = \frac{L}{180}$$

$$REQ'D S = \frac{12(772)}{1450(1.25)} = 5.11 \text{ IN} < 6.12 \text{ OK}$$

$$d_{req} = 0.52'' = \frac{L}{240}$$

$$REQ'D F = \frac{5(96)(10.5)^4(1728)}{384(1.7 \times 10^6)} = 12.99 \text{ K} > 2(5.35) = 10.70 \text{ NG}$$

ADD NEW 2x4 #1DF TO EXISTING 2-2x4 - JOINTS TO BE CENTERED ON POST. - ATTACH TO EXISTING w/ 16d SINKERS @ 6" CL

No. 937 811E  
Engineer's Computation Pad

STAEDTLER®

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CITY OF SALT LAKE  
MAY 24 2006  
NEIGHBORHOOD  
AND DEVELOPMENT