

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0012394
Insp Area: 3

Site Address: 2264 GERBER AV SAC
Parcel No: 014-0021-009

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

CONTRACTOR
GEORGE B WILSON
1130 WHITE ROCK RD #62
ELDORADO HILLS, CA 95762

OWNER
BILANDZICH NIKOLA T/MILKA
2017
SACRAMENTO CA 95817

ARCHITECT

Nature of Work: 150 SF DECK & COVER + REFRAME EXISTING ROOF

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 B License Number 651435 Date 11/9/00 Contractor Signature John Wilson

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 11/9/00 Applicant/Agent Signature John Wilson

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 _____

X (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 11/9/00 Applicant Signature John Wilson

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.

Date of Request: 10-16-00

By: _____

CITY OF SACRAMENTO DEVELOPMENT SERVICES DIVISION
PLANNING AND ZONING INFORMATION REQUEST

Project

Address: 7264 Senior Ave. Sacramento, Ca 95817

Assessor's Parcel Number: 10070000

Previous Use: SFD

Description of Request/Proposed Use: SFD Expand Roof to cover Deck to be built, Reinforce existing 2x4 battens in 2x2 2 day fix

Is This a Change of Use? no

Zoning Designation: R-1

Prior Applications for Project Site(P#, Z#, DRPB#): NA

Comments: NO PLAN, SWDAP & 97230000 9000

Are There Any Planning Issues?: (circle one) ~~YES~~ NO

- * Staff Site Plan Check Required? (Circle one) YES NO
- * Field Inspection Required? (Circle one) YES NO
- * Design Review/Preservation Required?: (Circle one) YES NO

Planning Review by/Date: [Signature] 10/16/2000

A list of items that must be reviewed by Planning is provided on the reverse side of this form.

MICROFILM AFTER FINAL

2221 Claremont Road
Carmichael, CA 95608
Tel. (916) 488-7654
Fax. (916) 483-0171

Structural Systems

January 2, 2001

Mr. George Wilson
1130 White Rock Road Space 62
El Dorado Hills, CA. 95762

Re Bilanzich Remodel

Dear Mr. Wilson:

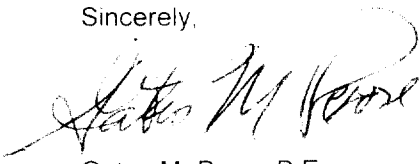
I have reviewed the items, which were identified by your building inspector in his nail off / frame inspection. Specifically the question of the seat cut in the 2x8 rafters and their connection to the top plate with the Simpson A35 clips, and the collar tie with 2x4's at 4'-0" o.c.

My calculations show that the horizontal shear stress in the remaining material after the long seat cut, which left 3.92" was 94.3 psi. The allowable shear stress for a DF#2 rafter is 95 psi. Therefore, the capacity of the rafter with the long seat cuts exceeds the required, and is acceptable. Also the lateral horizontal shear assuming the minimum required by conventional criteria may be transferred by the Simpson A35 as installed is adequate, therefore ok as well.

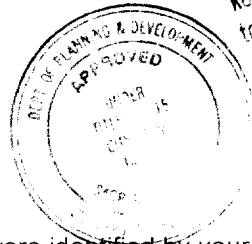
The collar ties, 2x4's at 4'-0" o.c. with 6 - 16 d's was checked in my calculations, along with the existing 2x4's at 16" o.c. used as ceiling joists. New 2x4 collar ties at 4'-0" were nailed off with 6 - 16 d's to the (N) 2x8 rafters and the ceiling joists, 2x4's at 16" o.c. were nailed with the required 3 - 8 d's. Using these values the rafter tie capacity exceeded the required and is therefore ok. Additionally the 2x10 ridge rafter is kicked off to the center bearing wall, which in theory would eliminate the need for any collar tie.

Therefore, it is my professional opinion that the above referenced items as installed meet and exceeds the 97' UBC requirements and is therefore acceptable as constructed. See my calculation sheets 1 & 2 for structural verification

Sincerely,



Gates M. Poore P.E.



This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division. The issuance of this approval shall not be held responsible for any violation of any city ordinance.



Sacramento Building Division

JAN 03 2001

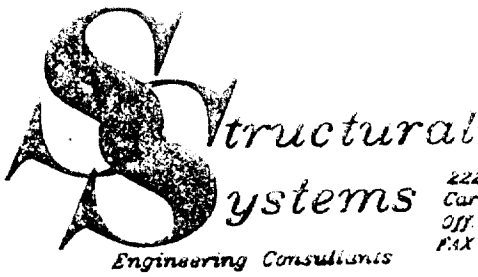
ISSUED

2264 Grand Rd

0012394R

Engineered designs yield the best structures.

MGT P 1/3/01



BILANZICH REMODEL
2264 GERBER AVE
SACRAMENTO, CA

SHT #1 OF 3
DEC. 28, 2000
G.M.P.
REV. 1/2/2000

2221 Clarendon Blvd
Carmichael, CA 95628
OFF. (916) 386-7000
FAX (916) 386-7000



ROOF RAFTER DESIGN

ROOF PITCH = 6/12

SPAN = 13'-0"

DL ROOFING Comp Shingles = 3.0 p/sf.
1/2" Plyw Sheatg. = 1.6 "
2x8's @ 24" OC = 1.0 "

5.6 p/sf. x 2 = 11.0 p/sf.

LL = 16 p/sf. x 2 = 32 p/sf.

1/2 2x8's @ 24" OC
DF # 2

VERY CONSERVATIVE
STRESS RATIO = 0.563

REACTION = DL = 71.5 lbs. LL = 208 lbs

SEE SHT # 3 FOR BEAM CUT CALCS.

CHECK LATERAL SHEAR TRANSFER

- ROOF SHEATHING THRU 2x8 RAFTER
W/ TRANSFER THRU A35 CLIP 1 PER RAFTER.

CAPACITY PER SIMP. CN. [4] $F_v = 515 \#$

∴ MIN. TRANSFER = 515/2 = 258 p/sf.

WHICH SATISFIES
MIN SHEAR OF
CONVENTIONAL FRAME
STRUCTURE.

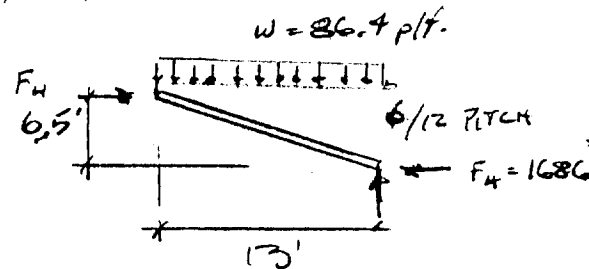
CHECK COLLAR TIES @ 4'-0"

ACTUAL ROOF PITCH AS CONSTRUCTED = 6/12 PITCH.

$W_{DL} = 4(5.6 + 16) = 86.4 \text{ p/sf.}$

$6.5' \times W_{DL} = 1/2 \times 86.4 \times 13^2$

$F_H = 1129 \#$ REQ'D HORIZ. CAP.



HORIZ. RESTRAINT = CLG JOIS @ 16" OC. (E)

ASSUME ONLY 3-8ds x 3 x 76 #/EA = 684 #/4.
= COLLAR TIE @ 4' w/ 6-Hol's = 6 x 105 = 630 #/4.

$\frac{630}{1314} \# \text{ AT } 4'-0" \text{ OC.}$
∴ OK



STRUCTURAL SYSTEMS
 2221 CLAREMONT RD
 CARMICHAEL, CA 95608
 (916) 488-7654
 (916) 483-0171 FAX

Title : Bilanzich REmodel
 Dsgnr: GMP
 Description : 2264 Gerber Ave.
 Sacramento, CA

Job #
 Date: 9:50AM, 28 DEC 00

Scope : Check roof rafter capacity and shear transfer

SNT #2 of 3

Rev: 510300
 User: KW-0601009, Ver 5.1.3, 22-Jun-1999, Win32
 (c) 1983-99 ENERCALC

Timber Beam & Joist

Page 1

c:\ec\bilanzich.ecw\Calculations

Description Roof rafters

Timber Member Information

Calculations are designed to 1997 NDS and 1997 UBC Requirements

		Rafters	
Timber Section		2x8	
Beam Width	in	1 500	
Beam Depth	in	7 250	
Le: Unbraced Length	ft	2.00	
Timber Grade		Douglas Fir - Larch,	
Fb - Basic Allow	psi	875.0	
Fv - Basic Allow	psi	95.0	
Elastic Modulus	ksi	1,600.0	
Load Duration Factor		1.250	
Member Type		Sawn	
Repetitive Status		Repetitive	

Center Span Data

Span	ft	13.00
Dead Load	#/ft	11.00
Live Load	#/ft	32.00

Results Ratio = 0.5634

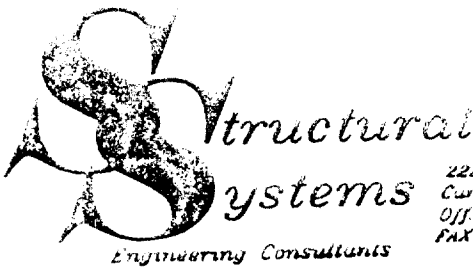
Mmax @ Center	in-k'	10.90
@ X =	ft	6.50
fb : Actual	psi	829.5
Fb : Allowable	psi	1,472.3
Bending OK		
fv : Actual	psi	35.2
Fv : Allowable	psi	118.8
Shear OK		

Reactions

@ Left End	DL	lbs	71.50
	LL	lbs	208.00
	Max. DL+LL	lbs	279.50
@ Right En	DL	lbs	71.50
	LL	lbs	208.00
	Max. DL+LL	lbs	279.50

Deflections

Center DL Def	in	-0.093
L/Defl Ratio		1.682.0
Center LL Defl	in	-0.270
L/Defl Ratio		578.2
Center Total Defl	in	-0.363
Location	ft	6.500
L/Defl Ratio		430.3



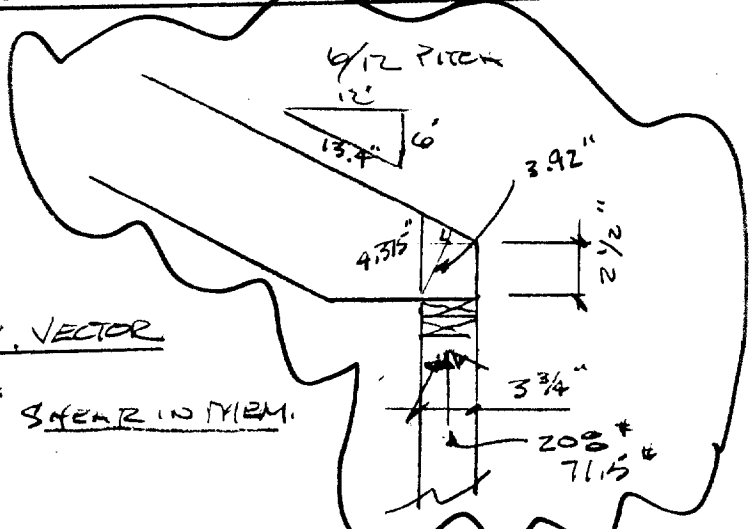
BLANDZICH REMODEL
2264 GERBER AVE.
SACRAMENTO, CA.

SHT #3 OF 3
JAN. 2, 2000
LMP

2221 CLAYTON AVE.
CARMICHAEL, CA 95608
OFF. (916) 485-7854
FAX (916) 483-0171

CHECK SEAT CUT W/ ACTUAL MEASUREMENTS

- IN ROOF W/ 6/12 PITCH
REACTION IS ACTUALLY
A VECTOR HORIZ. & VERT.



o ACTUAL HORIZ. SHEAR VECTOR

$\frac{(208 \times 71.5)}{13.4} = \frac{X}{12}$ $X = 250 \#$ SHEAR IN MEM.

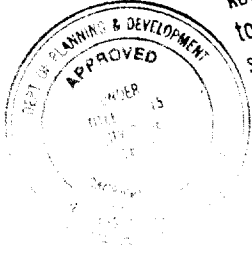
$F_v = \frac{(250) \times 3}{2 \times 1.5 \times 3.92} \left(\frac{7.25}{3.92} \right) = 117.95 \text{ psi} / 1.25 = 94.3 \text{ psi} < 95 \text{ psi} \therefore \text{OK}$

CHECK DEPTH @ EDGE OF PLATE

$\frac{5 \frac{3}{4}}{12} \times 6 = 1.87" \therefore \text{depth} = 2.5 + 1.87 = 4.375"$

$\frac{4.375}{13.4} = \frac{X}{12}$ $X = 3.92 \text{ in}$

reviewed by
MMP P. 1/3/01



This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division. The approval of this plan and specification shall not be held to constitute any warranty or representation of any kind by the City of Sacramento.