Parcel No: 225-0614-	CVEDO DR SAC 005	Sub-Type: RES Housing (Y/N): N
<u>CONTRACTOR</u>	<u>OWNER</u> GONZALEZ JOSE/MARIA A 2911 AZEVEDO DR SACRAMENTO CA 95833	<u>ARCHITECT</u>
Nature of Work: REROOD SOLID SHEATHING	F T/O 20 SQ STANDARD WEIGHT CONCRE	TE TILE OVER 1/2"
CONSTRUCTION LENDING of the work for which this permit is		at there is a construction lending agency for the performance
Lender's Name	Lender'sAddress	
	S DECLARATION: I hereby affirm under penalty of Division 3 of the Business and Professions Code and my	of perjury that I am licensed under provisions of Chapter license is in full force and effect.
Eicense Class License N	lumberDateCo	ontractor Signature
following reason (Sec. 7031.5, Bus any structure, prior to its issuance, of the Contractors License Law (Gexempt therefrom and the basis for penalty of not more than five hund for sale (Sec. 7044, Business and	siness and Professions Code; any city or county which requalso requires the applicant for such permit to file a signed above 19 (commencing with Section 7000) of Division 8 the alleged exemption. Any violation of Section 7031.5 bred dollars (\$500.00);  y, or my employees with wages as their sole compensation, Professional Code: The Contractors License Law does	nat I am exempt from the contractors License Law for the lires a permit to construct, alter, improve, demolish, orrepai statement that he or she is licensed pursuant to the provision of the Business and Professions Code) or that he or she is by any applicant for a permit subjects the applicant to a civil will do the work, and the structure is not intended or offered to the library company who builds or improve ided the library company are not intended or offered to
sale. If, however, the building or not build or improve for the purpos	are of sale.)  , am exclusively contracting with licensed contractors to aw does not apply to an owner of property who builds or in the Contractors License Law.	ided that such improvements are not intended or offered for where builded will have the burden of proving that he/she did construct the project (Sec. 7044, Business and Profession mproves thereon, and who contracts for such projects with a ORHOODS, PLANNINC
sale. If, however, the building or not build or improve for the purpos	the of sale.)  The annex of a sale is a sale in the contractors of the contractors of the contractors of the contractors are contractors. The contractors are contractors and the contractors are contractors.	
sale. If, however, the building or not build or improve for the purpos	an exclusively contracting with licensed contractors to aw does not apply to an owner of property who builds or in the Contractors License Law).	construct the project (Sec. 7044, Business and Profession mproves thereon, and who contracts for such projects with ORHOODS, PLANNING BY OPMENT SERVICES
I, as owner of the purpos  I, as owner of the property Code: The Contractors License La contractor(s) licensed pursuant to the second pursuant pursuant second	B & PC for this reason:    Common Signature	construct the project (Sec. 7044, Business and Profession mproves thereon, and who contracts for such projects with ORHOODS, PLANNING.  ELOPMENT SERVICES  The representation of the applicant, that the applicant verifies the improvement to be constructed does not violate any law his building permit does not authorize any illegal location of the applicant, which is building permit does not authorize any illegal location of the applicant of the applicant of the improvement to be constructed does not violate any law his building permit does not authorize any illegal location of the abovementioned property for inspection purposes.
I, as owner of the property Code The Contractors License La contractor(s) licensed pursuant to the second and example under Second all measurements and locations show private agreement relating to performance of work for which the  WORKER'S COMPENSATIO  I have and will maintain a coperformance of work for which the	B & PC for this reason:  Cowner Signature  PERMIT, the applicant represents, and the city relies on the application or accompanying drawings and that the application of accompanying drawings and the accompanying drawings and that the application of accompanying drawings and the accompanying drawings and the accompanying drawings and the accompa	construct the project (Sec. 7044, Business and Profession mproves thereon, and who contracts for such projects with ORHOODS, PLANNING.  ELOPMENT SERVICES  The representation of the applicant, that the applicant verifies the improvement to be constructed does not violate any law his building permit does not authorize any illegal location of the abovementioned property for inspection purposes.  The perjury one of the following declarations:  In as provided for by Section 3700 of the Labor Code, for the construction of the construction of the construction of the construction purposes.
I, as owner of the property Code The Contractors License La contractor(s) licensed pursuant to the second and example under Sec.  Date 9-14-00  IN ISSUING THIS BUILDING I all measurements and locations shoor private agreement relating to per any improvement or the violation of the certify that I have read this application to building construction and Date 9-14-00  WORKER'S COMPENSATION I have and will maintain a conformance of work for which the	B & PC for this reason:  Cowner Signature  PERMIT, the applicant represents, and the city relies on the application or accompanying drawings and that the application of accompanying drawings and the accompanying drawings and that the application of accompanying drawings and the accompanying drawings and the accompanying drawings and the accompa	construct the profect (Sec. 7044, Business and Profession mproves thereon, and who contracts for such projects with ORHOODS, PLANNING.  ELOPMENT SERVICES.  The representation of the applicant, that the applicant verifies the improvement to be constructed does not violate any law his building permit does not authorize any illegal location of the abovementioned property for inspection purposes.  The perjury one of the following declarations:  In as provided for by Section 3700 of the Labor Code, for the construction of the work for the performance of th
I, as owner of the property Code The Contractors License La contractor(s) licensed pursuant to the second and example under Sec.  Date 9-14-00  IN ISSUING THIS BUILDING I all measurements and locations shoor private agreement relating to per any improvement or the violation of the certify that I have read this application to building construction and Date 9-14-00  WORKER'S COMPENSATION I have and will maintain a conformance of work for which the	B & PC for this reason:  Cowner Signature  PERMIT, the applicant represents, and the city relies on the application or accompanying drawings and that the application of accompanying drawings and the accompanying drawings and that the application of accompanying drawings and the application of accompanying drawings and the application of accompa	construct the profect (Sec. 7044, Business and Profession mproves thereon, and who contracts for such projects with ORHOODS, PLANNING.  ELOPMENT SERVICES.  The representation of the applicant, that the applicant verifies the improvement to be constructed does not violate any law his building permit does not authorize any illegal location of the abovementioned property for inspection purposes.  The perjury one of the following declarations:  In as provided for by Section 3700 of the Labor Code, for the construction of the work for the performance of th
I, as owner of the property Code: The Contractors License La contractor(s) licensed pursuant to the lam exempt under Sec.  Date	B & PC for this reason:  Cowner Signature  PERMIT, the applicant represents, and the city relies on the contractor of any private agreement relating to location of improvements. If any private agreement relating to location of improvement is distributed authorize representative(s) of this city to enter upon the private agreement relating to location of improvements. If any private agreement relating to location of improvement is defined authorize representative(s) of this city to enter upon the private agreement to self-insure for workers' compensation permit is issued.  ON DECLARATION: I hereby affirm under penalty of ertificate of consent to self-insure for workers' compensation permit is issued.  Orkers' compensation insurance, as required by Section 37 orkers' compensation insurance carrier and policy number ampleted if the permit is for \$100 or less). I certify that in temporary properties are properties of the permit is for \$100 or less). I certify that in temporary properties are properties of the permit is for \$100 or less). I certify that in temporary properties are properties of the permit is for \$100 or less). I certify that in temporary properties are properties of the permit is for \$100 or less).	construct the project (Sec. 7044, Business and Profession meroves thereon, and who contracts for such projects with ORHOUS, PLANNING.  ELOPMENT SERVICES  The representation of the applicant, that the applicant verifies the improvement to be constructed does not violate any law his building permit does not authorize any illegal location of the abovementioned property for inspection purposes.  The perjury one of the following declarations:  In as provided for by Section 3700 of the Labor Code, for the composition of the Labor Code, for the performance of the work for which this permit is issued, seation laws of California and agree that if I should become

0010734

Permit No:

Insp Area:

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

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.

### OWNER-BUILDER VERIFICATION

### ATTENTION PROPERTY OWNERS

An owner-builder building permit has been applied for in your name and bearing your signature.

Please complete and return this information in the envelope provided at your earliest opportunity to avoid unnecessary delay in processing and issuing your building permit. No building permit will be issued until this verification is received.

1.		o provide the major lab		nstruction of the proposed
2.		for the proposed work.		
2.	I have contracted	with the following person	on (firm) to provide th	e proposed construction:
	Name		_Address	
	City		_Telephone	
	Contractors Lice	ense No.		
4.		portions of the work, but ovide the major work.	at I have hired the follo	wing person to coordinate,
	Name		_Address	
	City		_Telephone	
	Contractors Lice	nse No		
5.	I will provide son Work indicated:	ne of the work but I hav	e contracted (hired) th	e following to provide the
	Name	Address	Phone	Type of work
Si	igned Mari	e a. Gry'l		
Jo	b Address 24	MAZEVE	DO DR X	DATE 9-14-00
	ermit No:	10734		

#### Gonzales

Paul Zacher - Structural Engineers 4701 Lakeside Way Fair Oaks, CA 95628

September 8, 2000

DITY OF SACRAMENTO PERMIT ASSISTANCE

Gonzales 2911 Azevedo Drive Sacramento, CA 95833

TEL: (916) 564-8504

SEP 1 2 7000

RECEIVED

Attn.: Mr. Tony Gonzales,

re: Job 2000 297 GONZALES

Subject: Structural Investigation Report of the Roof for the Residence located at 2911 Azevedo Drive. Sacramento, CA 95833.

As requested by Mr. Tony Gonzales, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site September 8, 2000. The investigation was made to determine the existing condition of the structure. All information, data and analysis contained within this report are based on the 1997 Uniform Building Code.

ANNING & GEVER

CITY CODE

The following is based on visual observations with no subsurface investigation being made.

#### DESCRIPTION:

Type of Facility Residence

Year Built: Estimated 1980's vintage

Occupancy Residential

No. of Stories

**Dimensions** Approximately 2000 square feet with a first sta

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.

TEL: 916.961.3960

FAX: 916.961.6552

PROFESSIONAL ACHES

Nd.\S3878

plate Heighproral rechis plan and specification ALL NOT be held to permit or approve the violation of any City Ordinance or State Law

### CONSTRUCTION

Roof:

BAB: - WESSESSES ENGLISSES

The roof covering will consist of a Standard Weight Concrete Tile over 1/2" solid sheathing. The living area is conventionally framed with 2x4 and 2x6 rafters spaced at 24" on center with 2x6 purlins supported at no more than 6'-0" on center by 2x4 struts bearing on walls below except for the vaulted ceiling areas. The vaulted ceiling is constructed of 2x6 rafters spaced at 24" on center supported at the ridge by a 4x beam. The garage area is framed with 2x6 rafters spaced at 24" on center and 2x6 cross ties spaced at 4'-0" on center

#### CONCLUSIONS

Roof

The living area lacks sufficient structural capacity for the applied live and dead loads. The garage has sufficient structural capacity for the applied live and dead loads.

Paul Zacher - Structural Engineers 4701 Lakeside Way Fair Oaks, CA 95628

TEL: 916.961.3960 FAX: 916.961.6552

### **RECOMMENDATIONS:**

If any of the following recommendations do not correspond to actual field conditions, the engineer of record shall be notified for further investigation and evaluation before continuing work.

Living Area

- Scab a 1 3/4" x 9 1/4" x 12'-0" long LVL purlin to the existing 2x6 purlin which spans 12'-0". Attach it with 16d's @ 3" on center. Support the LVL to the bearing walls below with 2x4 struts. See details 1 and 2.
- 2. Provide an additional 2x4 strut from the existing purlin to the bearing wall below. The maximum spacing between the new and existing struts shall not exceed 6'-0" on center. The unbraced length of the strut shall not exceed 8'-0" and the minimum slope of the strut shall not be less than 45 degrees from the horizontal. See detail 1.

It shall be noted that small hairline cracking may occur at exterior stucco and interior gypboard finished walls that are load bearing or distributing roof strut loads. These cracks are a natural occurrence as the existing structure re-distributes the new roof weight. They are cosmetic in nature and are not an indication of a structural hazard or failure

It shall be noted that some deflection of the rafters may be evident after installation of the tile. The existing roof framing has deflected but this may not be readily evident due to the uneven nature of the existing roofing material. Concrete tile is a very consistent and uniform product and when installed in an even plane, even small deflections can become apparent. This is only a cosmetic issue and not a structural concern.

The inspection consisted of visual observation only, made solely to determine the structural capacity of the existing roof. Analysis does not determine any effects on the overall structure under lateral forces or effects on the foundation unless specifically noted in the calculations and in this document. No warranties, expressed or implied, are made or intended in conjunction with this report. The inspection was made only to the portions that were accessible. The specific items noted were those that were observable and there may be defects that are not observable, or are hidden by architectural and structural materials.

If you have any questions on the above, do not hesitate to call.

Since ely.

Paul Zacher, P.E., S.E.

file

# **DESIGN LOADING:**

Roof Pitch	4	in 12
Pitch Adjustment Factor	1.05	

# LOCATION: ROOF

MATERIAL	WEIGHT	-
Standard Weight Tile	9.30	psf
Roofing felt	0.30	psf
1x4 skip sht'g	1.09	psf
1/2" OSB/ plywood	1.50	psf
2x4 rafters @ 24" oc	0.64	psf
Load	12.8	psf
Roof Pitch Adjustment	0.69	psf
Total Load	13.5	psf

## LOCATION: VAULT

EGCITION TITOET		
MATERIAL	WEIGHT	
Standard Weight Tile	9.30	psf
Roofing felt	0.30	psf
1/2" OSB/ plywood	1.50	psf
1x4 skip sht'g	1.09	psf
2x6 rafters @ 24" oc	1.00	psf
Batt/blown insul	0.50	psf
1/2" Gypboard	<u>2.50</u>	psf
Lo	ad 16.2	psf
Roof Pitch Adjustme	ent <u>0.88</u>	psf
Total Lo		psf

4701 Lakeside Way PK Zacher SE Fair Oaks, CA 95628 TEL: (916) 961-3960 job#: FAX: (916) 961-6552 Date: -61913 < A - The --1-4/2 SEL A SERVICE COR - AT THE 100 542/62 YAYE. Contract of the war to g army Comment 54/00 10 4,12,72 22 16 1 2 1 1 1 Egital of Att فسيران المراج - & O (60 - 5 160/24 100 4 2 7 10.00 120/12 AJA, 2 12 1 08/16 EUELU CL WEST Law Bar Line Page:

Paul Zacher - Structural Engineers

4701 Lakeside Way

Fair Oaks

TEL: (916) 961-3960

FAX: (916) 961-6552

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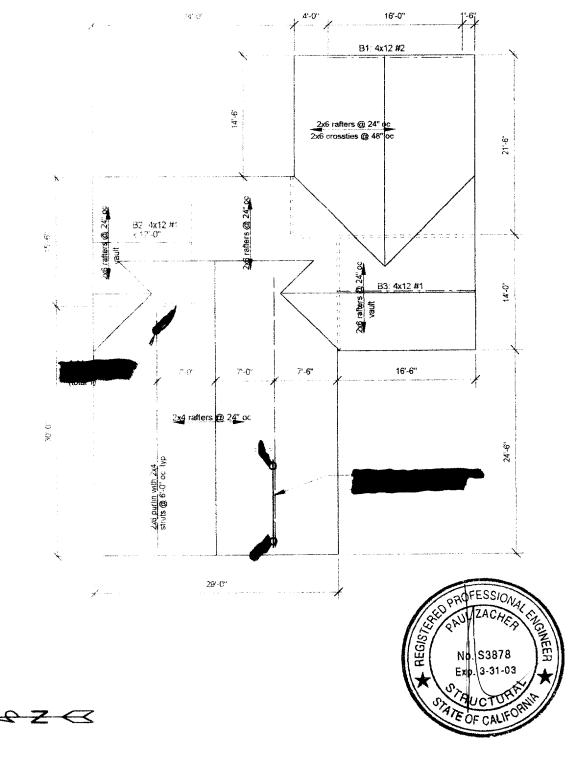
Scope:

Timber Beam & Joist

c:\enercalc\test.ecw:Calculations

Description RAFTERS AND BEAMS

Timber Member Information			Calculations are designed to 1997 NDS and 1997 UBC Requirements					
		rafter	rafter	vault	81	82	B3	Purlin
Timber Section		2x4	2x6	2x6	4x12	4x12	4x12	LVL:1.750x
Beam Width	in	1.500	1.500	1.500	3.500	3.500	3.500	1.750
Beam Depth	in	3.500	5. <b>500</b>	5.500	11.250	11.250	11.250	9.250
Le: Unbraced Length		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Timber Grade	o.	iglas Fir Larch, o	ugias Fir LarchDo	ouglas Fir - Larch,Do	ouglas Fir - Larch,D	ouglas Fir · LarchD	ouglas Fir - Larch, Tr	2.600.0
Fb - Basic Allow	psi	875.0	875.0	875.0	875.0	1,000.0	1,0 <b>00</b> .0 <b>9</b> 5.0	285.0
Fy - Basic Allow	psi	<b>95</b> .0	95.0	95.0	95.0	95.0	1,700.0	1,900.0
Elastic Modulus	ksi	1, <b>600</b> .0	1,600.0	1,600.0	1,600.0	1,700.0		1.250
Load Duration Factor		1.250	1.250	1.250	1.250	1.250	1.250	Manuf/Pine
Member Type		Sawn	Sawn	Sawn	Sawn	Sawn	Sawn No	No
Repetitive Status		Repetitive	Repetitive	Repetitive	No	No	110	
en <b>ter Spa</b> n Data								
Span	ft	<sup>7</sup> 50	11.75	10.25	16.00	12.00	16,50	12.00
Dead Load	#/ft	27 00	27.00	34.20	54.00	133.00	120.00	98.00
Live Load	#/ft	32.00	32. <b>0</b> 0	32.00	64.00	124.00	112.00	116.00
Results	Ratio =	0.8616	0.9881	0.8437	0.5101	0.5468	0.9333	0.5 <b>69</b> 9
Record To the Section	AND SEEDING A	498	12.22	10.43	45.31	55.51	94.74	46.22
Mmax @ Center	in-k	4 <b>90</b> 3 75	5.87	5.12	8.00	6.00	8.25	6.00
<b>@</b> X =	ft				613.7	751.9	1,283.3	1.852.2
fb Actual	psi	1,625.5	1,615.7	1,379.5	1,203.1	1,375.0	1,375.0	3.250.0
Fb : Al <b>lowabi</b> e	psi	1,886.7	1,635.2	1,635.2	· · · · · · · · · · · · · · · · · · ·			Bending Ol
		Bending OK	Bending OK		-	_	_	103.8
fv Actual	psi	58.7	5 <b>8</b> .5	56.3	31.9	49.8	64.7 118.8	356.3
Fv Allowable	psi	118.8	118.8	118.8	118.8	118.8 Shear Ok		Shear O
	•	Shear OK	Shear OK	Shear OK	Shear O	/ Sileai Or	· · · · · · · · · · · · · · · · · · ·	
Reactions								
@ Left End DL	lbs	101 25	158.62	175.27	432.00	798.00	990.00	588.00 696.00
LL	lbs	120.00	188.00	164.00	512.00	744.00	924.00 1,914.00	1,284.00
Max. DL+Li	lbs	221 25	3 <b>46.6</b> 2	<b>339</b> .27	944.00	1,542.00	•	
@ Right End DL	lbs	101 25	158.62	1 <b>75</b> .27	432.00	798.00	990.00	588.00
E KIGIK ENG DE	lbs	120.00	188.00	164.00	512. <b>00</b>	744.00	924.00	696.00 1,284.00
Max DL+L	lbs	221 25	346.62	3 <b>39</b> .27	944.00	1,542.00	1,914.00	1,204.00
Deflections		Ratio OK	Deflection OK	Deflection OK	Deflection OK	Deflection OK	Deflection OK	Deflection OK
		-0 224	-0.348	-0.255	-0.120	-0.088	-0.283	-0.208
Center DL Defi	in	401.5	405.2	481.9	1,602.2	1,638.4	<b>69</b> 6.5	690.7
L/Defl Ratio	i	-0.2 <b>66</b>	0.412	-0.239	-0.142	-0.082	-0.2 <del>6</del> 5	-0.247
Center LL Defi	in	-0,2 <b>0</b> 0 338.8	341.9	515.0	1,351.9	1,757.3	748.4	583.5
∠/Defl Ratio		-0.4 <b>9</b> 0	-0.760	0.494	-0.262	-0.170	-0.548	-0.455
Center Total Defi	in :	3,7 <b>50</b>	5.875	5.125	8.000	6.000	8.250	6.000
	- 11	5 / CTAL)	3,013	0.120				24.52
Location U∕Deft Ratio		183.7	185.4	248.9	733.2	847.9	361.3	316.3



#### Notes

- This is a reroof project. The new roofing material shall be a Standard Weight Concrete Tile. The tile shall weigh less than or equal to 9.3 psf.
- 2 All rafters are 2x6 DF#2 and hips and valleys are 2x8 DF#2 unless otherwise noted.
- 3 All existing rafter, hips, valleys, rafter ties, and purlins are braced per UBC Section 2320.12 "Roof and Ceiling Framing" unless otherwise shown.
- 4 All structural wood members that were observed appear to be in sound condition and without structural defect.



## **ROOF PLAN - GONZALES**

Not to Scale

