

CITY OF SACRAMENTO  
1231 I Street, Sacramento, CA 95814

Permit No: 0514804  
Insp Area: 2  
Thos Bros: 336J4

Site Address: 1011 RIO CIDADE WY SAC  
Parcel No: 031-1200-031

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

CONTRACTOR  
WEATHERTITE ROOFING  
4661 SUMMER CREEK CT  
SHINGLE SPRINGS, CA 95682

OWNER  
YOKOYAMA KEN K/LINDA  
1011 RIO CIDADE WY  
SACRAMENTO, CA 95831

ARCHITECT

Nature of Work: RE-ROOF, TEAR-OFF, RESHEET, INSTALLATION OF 50 SQ'S LIGHT WEIGHT TILE SAXONY SHAKE

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-39 License Number 420375 Date 9/22/05 Contractor Signature Carolyn Peir

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.

Date 9/22/05 Applicant/Agent Signature Carolyn Peir

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.

CP 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 1271896-3004 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 9/22/05 Applicant Signature Carolyn Peir

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**

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

Downtown Permit Center  
 1231 I Street, Suite 200  
 Sacramento, CA 95814  
 North Permit Center  
 2101 Arena Blvd., Suite 200  
 Sacramento, CA 95834

Fax # 916-264-1901

**MINOR PERMIT APPLICATION**

Date: 9/22/05

*Faxed/web request must be received in this office by 3:00 P.M. to be processed the following workday. Contractors must have a current certificate of Worker's Compensation Insurance. Note: Work started before a Building Permit is issued will be subject to quad fee.*

*Permits requiring Plan Review are not eligible for the MINOR PERMIT PROGRAM. Design Review and Historic Preservation approval may be required if job address is located in those areas (additional forms may be required).*

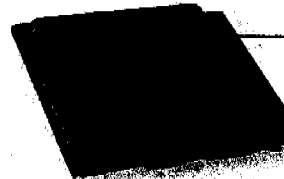
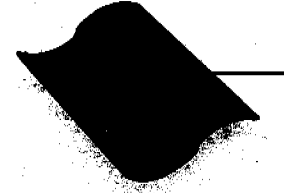
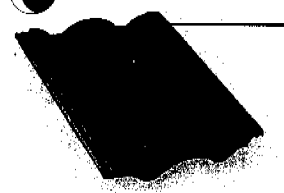
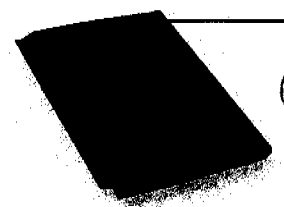


**IN ORDER TO PROCESS THIS REQUEST, ALL THE FOLLOWING INFORMATION MUST BE PROVIDED:**

Job Address: 2011 Rio Cidrade Way Bid Type:  RESIDENTIAL  APARTMENTS (4+ units per building)  COMMERCIAL (limited)  
 CONTACT INFO Name: Looney Peas Unit # \_\_\_\_\_ Contract Price: \$18,000  
 Property Owner: MC YOKOYAMA Contractor: Woothella Roofing License #: 420375  
 Address: 1011 Rio Cidrade Way City/State/Zip: Sacramento, CA 95831 Phone: 530-672-1113 Fax: 530-672-1113  
 Nature of Work: Provide description of work & indicate type of work in selections below.

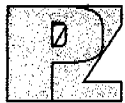
Description of Work: Tear off Shakes, Resheet, Replace with light weight tile.

<input checked="" type="checkbox"/> Reroof (excluding tile) <input type="checkbox"/> Tear-Off <input type="checkbox"/> Resheet <input type="checkbox"/> House <input type="checkbox"/> Garage # Stories: <u>1</u> # Squares: <u>500</u> Material: <u>Light weight</u> <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	<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. Value of duct work: _____ Equipment \$: _____ Cut-in: \$: _____	<input type="checkbox"/> Water Heater (Residential Only) <input type="checkbox"/> Electric <input type="checkbox"/> Gas <input type="checkbox"/> Change-out <input type="checkbox"/> Electric to Gas <input type="checkbox"/> Relocate <input type="checkbox"/> New	<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"/> Public Utilities Safety Inspection <input type="checkbox"/> SMUD <input type="checkbox"/> PG&E * NOTE * Correction Notice items will require an additional building permit.
Office Use Only: Parcel #:	Date Received:	Date Issued:	Processor's Initials:	Permit #: <u>0514804</u>

# Technical Specifications

CedarLite	Size and Coverage	Weight in Place
	Individual tile nominally 13-1/2" x 13". At a 3-1/2" headlap, approx. 120 field tiles will cover 100 square feet of roof area.	Installed weight per square approx. 580 lbs.
Duralite	Size and Coverage	Weight in Place
	Barcelona Individual tile nominally 17" x 12-3/8". At 3" minimum headlap, approx. 89 field tiles will cover 100 square feet of roof area.	Installed weight per square approx. 590 lbs.
	Villa Individual tile nominally 17" x 13". At 3" minimum headlap, approximately 87 field tiles will cover 100 square feet of roof area.	Installed weight per square approx. 580 lbs.
	Saxony Shake Individual tile nominally 16-1/2" x 13". At 3" minimum headlap, approx. 88 field tiles will cover 100 square feet of roof area.	Installed weight per square approx. 596 lbs.
	Split Shake Individual tile nominally 16-1/2" x 13". At 3" minimum headlap, approx. 88 field tiles will cover 100 square feet of roof area.	Installed weight per square approx. 596 lbs.
	Slate Individual tile nominally 16-1/2" x 13". At 3" minimum headlap, approx. 88 field tiles will cover 100 square feet of roof area.	Installed weight per square approx. 596 lbs.

Yokoyama



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

TEL: 916.961.3960  
FAX: 916.961.6552

PREPARED BY: PAUL ZACHER, REGISTERED PROFESSIONAL ENGINEER, STRUCTURAL, STATE OF CALIFORNIA

August 12, 2005

Weather-Tite Roofing Company  
P.O. Box 6068  
Folsom, CA 95673  
TEL: (916) 635-9810; M: (916) 849-1977  
FAX: (916) 635-9810



Attn.: Mr. Larry Peer,

re: Job 2005405: YOKOYAMA

Subject: Structural Investigation Report of the Roof for the Residence located at 1011 Rio Cidade Way, Sacramento, CA 95831.

As requested by Mr. Larry Peer, this is a report to determine what needs should be addressed to correct any structural deficiencies of the roof. Paul Zacher visited the site August 10, 2005. 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 with 2001 CBC Title 24 Amendments.

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:	One.
Dimensions:	Approximately 3000 square feet.

ISSUED  
CITY OF SACRAMENTO  
SEP 22 2005  
DOWNTOWN PERMIT  
CENTER  
GEO for C.B. 9/22/05

CONSTRUCTION:

Roof:

The roof covering will consist of a Light Weight Concrete Tile over a batten system. The roof structure is conventionally framed with 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 by a 6x 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 roof structure currently lacks sufficient structural capacity for the applied live and dead loads. See "Recommendations" for location and repair to bring the roof structure up to the required capacity.

Yokoyama



Paul Zacher - Structural Engineers, Inc  
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.

Roof Structure:

1. Scab a 1 3/4" x 11 7/8" LVL beam to the existing 2x6 crosstie and nail together with 16d's @ 6" oc. The ends of the LVL may be clipped as required to meet the slope of the rafters. The support at the interior wall shall be a 2x8 x 2'-8" long ledger attached to the double top plate with 16d's @ 2" oc staggered. Support the existing ridge, hip and valley boards to the LVL beam with 2x4 struts. See details 1 and 2.
2. Scab a 2x6 rafter to the existing 2x6 rafters with 16d's @ 12" on center where the span is greater than 12'-0". The rafter to be scabbed to the existing rafter may be held short of the intersecting bearing wall, hip, valley, ridge or purlin by no more than 4". 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.

Sincerely,

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

**DESIGN LOADING:**

Roof Pitch	6	in 12
Pitch Adjustment Factor	1.12	

**LOCATION: ROOF BATTEN SYTEM**

<u>MATERIAL</u>	<u>WEIGHT</u>	
Light Weight Tile	7.30	psf
Roofing felt	0.30	psf
1x4 skip sht'g	1.09	psf
Batten system	0.50	psf
2x6 rafters @ 24" oc	1.00	psf
	<b>Load</b>	10.2 psf
	Roof Pitch Adjustment	1.20 psf
	<b>Total Load</b>	11.4 psf

**LOCATION: VAULT BATTEN SYSTEM**

<u>MATERIAL</u>	<u>WEIGHT</u>	
Light Weight Tile	7.30	psf
Roofing felt	0.30	psf
Batten system	0.50	psf
1x4 skip sht'g	1.09	psf
2x6 rafters @ 24" oc	1.00	psf
Batt/blown insul	0.50	psf
1/2" Gypboard	2.50	psf
	<b>Load</b>	13.2 psf
	Roof Pitch Adjustment	1.56 psf
	<b>Total Load</b>	14.8 psf

Job #: 05\_405

Date: 08/12/2005

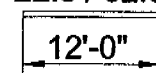
LOADING:

Rafter:

Dr = 11.4 psf x 2'-0" = 22.8 plf  
 Lr = 16.0 psf x 2'-0" = 32.0 plf

2x6 #2

22.8 / 32.0

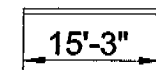


Rafter:

Dr = 11.4 psf x 2'-0" = 22.8 plf  
 Lr = 16.0 psf x 2'-0" = 32.0 plf

2-2x6 #2

22.8 / 32.0

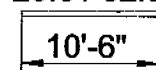


Vault:

Dr = 14.8 psf x 2'-0" = 29.6 plf  
 Lr = 16.0 psf x 2'-0" = 32.0 plf

2x6 #2

29.6 / 32.0



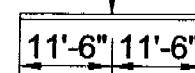
LVL:

Pdr = 11.4 psf x 7' x 7' = 558 lbs  
 Plr = 16.0 psf x 7' x 7' = 784 plf

1-3/4"x11 7/8" LVL

558 / 784

R3 = 279 / 392



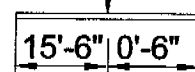
B1:

Dr = 11.4 psf x 7'-0" = 80 plf  
 Lr = 16.0 psf x 7'-0" = 112 plf  
 Pd/lr = 279 / 392 = LVL

1-3/4"x11 7/8" LVL

279 / 392

80 / 112

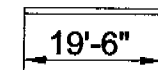


B2:

Dr = 14.8 psf x 10'-0" = 148 plf  
 Lr = 16.0 psf x 10'-0" = 160 plf

6x14 #1

148 / 160



**Timber Beam & Joist**

**Description RAFTERS AND BEAMS**

**Timber Member Information** Code Ref: 1997/2001 NDS, 2000/2003 IBC, 2003 NFPA 5000. Base allowables are user defined

	rafter	rafter	vault	LVL	B1	B2
<b>Timber Section</b>	2x6	2-2x6	2x6 MicroLam: 1.75x11.		4x12	6x14
Beam Width	in 1.500	3.000	1.500	1.750	3.500	5.500
Beam Depth	in 5.500	5.500	5.500	11.875	11.250	13.500
Le: Unbraced Length	ft 0.00	0.00	0.00	0.00	0.00	0.00
Timber Grade	Douglas Fir - Larch, No.2	Douglas Fir - Larch, No.2	Douglas Fir - Larch, No.2	Truss Joist - MacMillan,	Douglas Fir - Larch, No.2	Douglas Fir - Larch, No.1
Fb - Basic Allow	psi 875.0	875.0	875.0	2,600.0	875.0	1,350.0
Fv - Basic Allow	psi 95.0	95.0	95.0	285.0	95.0	85.0
Elastic Modulus	ksi 1,600.0	1,600.0	1,600.0	1,900.0	1,600.0	1,600.0
Load Duration Factor	1.250	1.250	1.250	1.250	1.250	1.250
Member Type	Sawn	Sawn	Sawn	Manuf/Pine	Sawn	Sawn
Repetitive Status	Repetitive	Repetitive	Repetitive	No	No	No

**Center Span Data**

		rafter	rafter	vault	LVL	B1	B2
Span	ft	12.00	15.25	10.50	23.00	16.00	19.50
Dead Load	#/ft	22.80	22.80	29.60		80.00	148.00
Live Load	#/ft	32.00	32.00	32.00		112.00	160.00
Point #1 DL	lbs				558.00	279.00	
LL	lbs				784.00	392.00	
@ X	ft				11.500	15.500	

**Results** Ratio = 0.9572 0.7730 0.8238 0.6927 0.8529 0.6314

Mmax @ Center	in-k	11.84	19.12	10.19	92.60	75.75	175.68
@ X =	ft	6.00	7.62	5.25	11.50	8.13	9.75
fb : Actual	psi	1,565.2	1,263.9	1,347.1	2,251.4	1,026.1	1,051.6
Fb : Allowable	psi	1,635.2	1,635.2	1,635.2	3,250.0	1,203.1	1,665.6
		Bending OK	Bending OK	Bending OK	Bending OK	Bending OK	Bending OK
fv : Actual	psi	55.5	35.9	54.1	48.4	52.8	53.9
Fv : Allowable	psi	118.8	118.8	118.8	356.3	118.8	106.3
		Shear OK	Shear OK	Shear OK	Shear OK	Shear OK	Shear OK

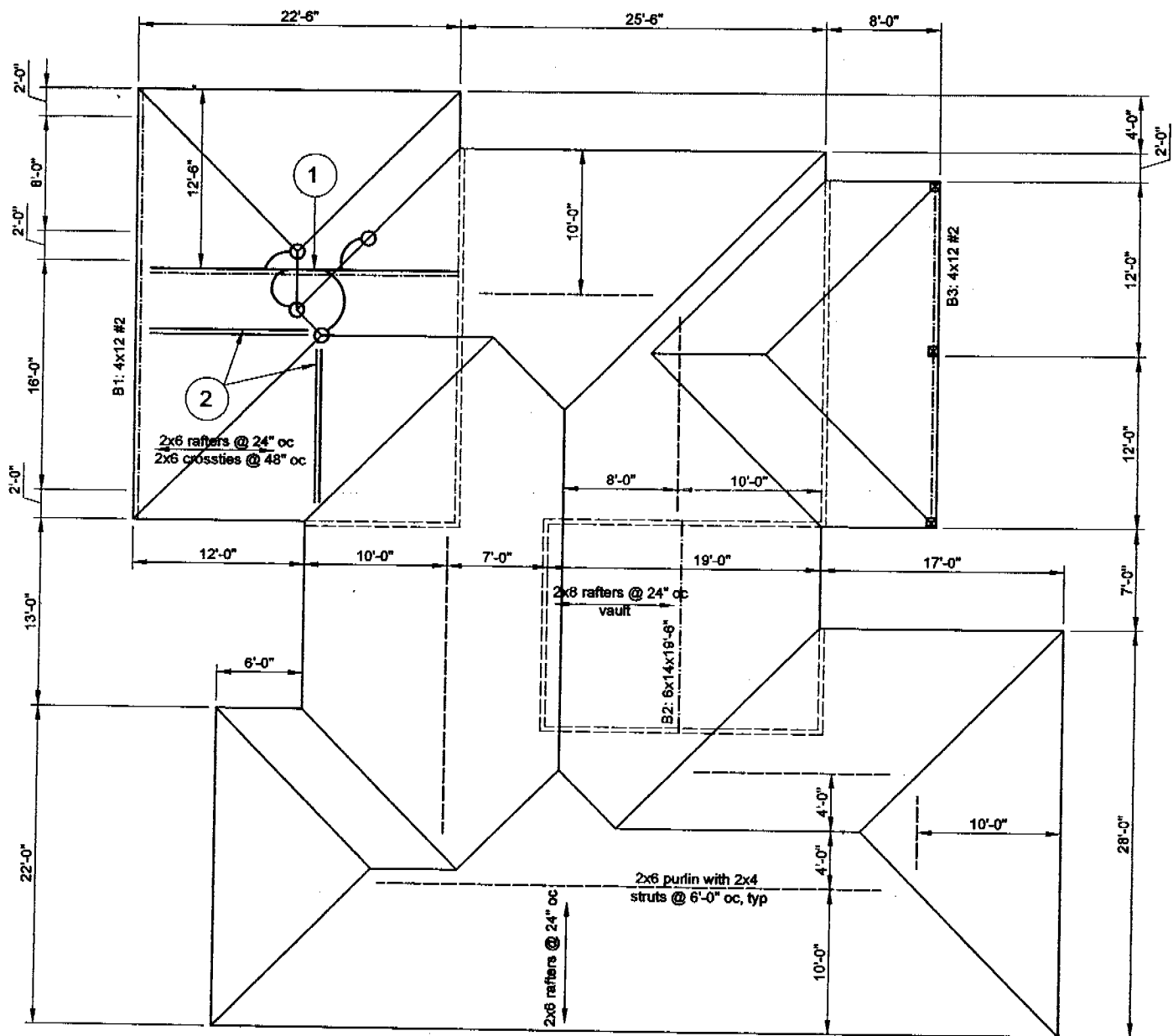
**Reactions**

@ Left End DL	lbs	136.80	173.85	155.40	279.00	648.72	1,443.00
LL	lbs	192.00	244.00	168.00	392.00	908.25	1,560.00
Max. DL+LL	lbs	328.80	417.85	323.40	671.00	1,556.97	3,003.00
@ Right End DL	lbs	136.80	173.85	155.40	279.00	910.28	1,443.00
LL	lbs	192.00	244.00	168.00	392.00	1,275.75	1,560.00
Max. DL+LL	lbs	328.80	417.85	323.40	671.00	2,186.03	3,003.00

**Deflections** Ratio OK Deflection OK Deflection OK Deflection OK Deflection OK Deflection OK

Center DL Defl	in	-0.320	-0.417	-0.243	-0.527	-0.183	-0.267
L/Defl Ratio		450.5	438.9	517.9	524.0	1,047.3	876.9
Center LL Defl	in	-0.449	-0.585	-0.263	-0.740	-0.257	-0.288
L/Defl Ratio		320.9	312.8	479.1	372.9	748.0	811.1
Center Total Defl	in	-0.768	-1.002	-0.506	-1.267	-0.440	-0.555
Location	ft	6.000	7.625	5.250	11.500	8.064	9.750
L/Defl Ratio		187.4	182.6	248.9	217.9	436.3	421.4





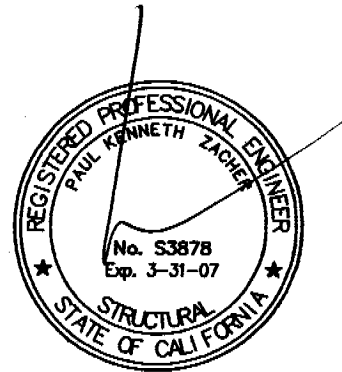
**FRAMING NOTES:**

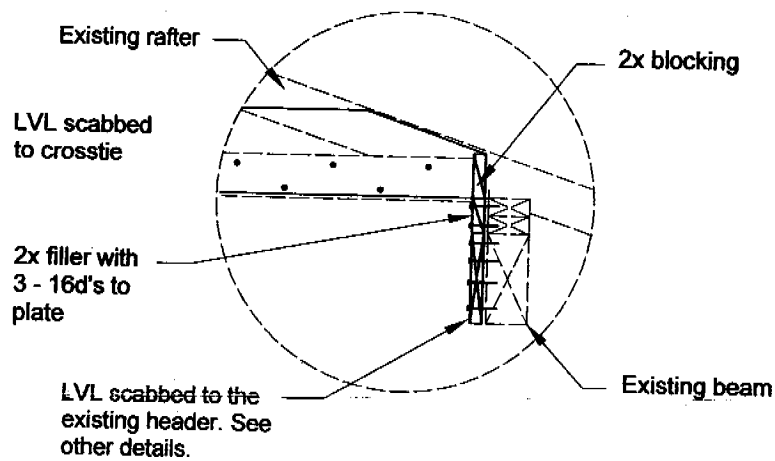
1. Scab a 1-3/4" x 11-7/8" LVL to the existing 2x6 crossie with 16d's @ 6" oc. The ends of the LVL may be clipped as required to meet the slope of the rafters. The support at the interior wall shall be a 2x8 x 2'-8" long ledger attached to the double top plate with 16d's @ 2" oc staggered. Support the existing ridge, hip and valley rafters to the LVL below with 2x4 struts. See detail 2.
2. Scab a 2x6 to existing 2x6 rafters where the span is greater than 12'-0" (total 2).

**NOTES:**

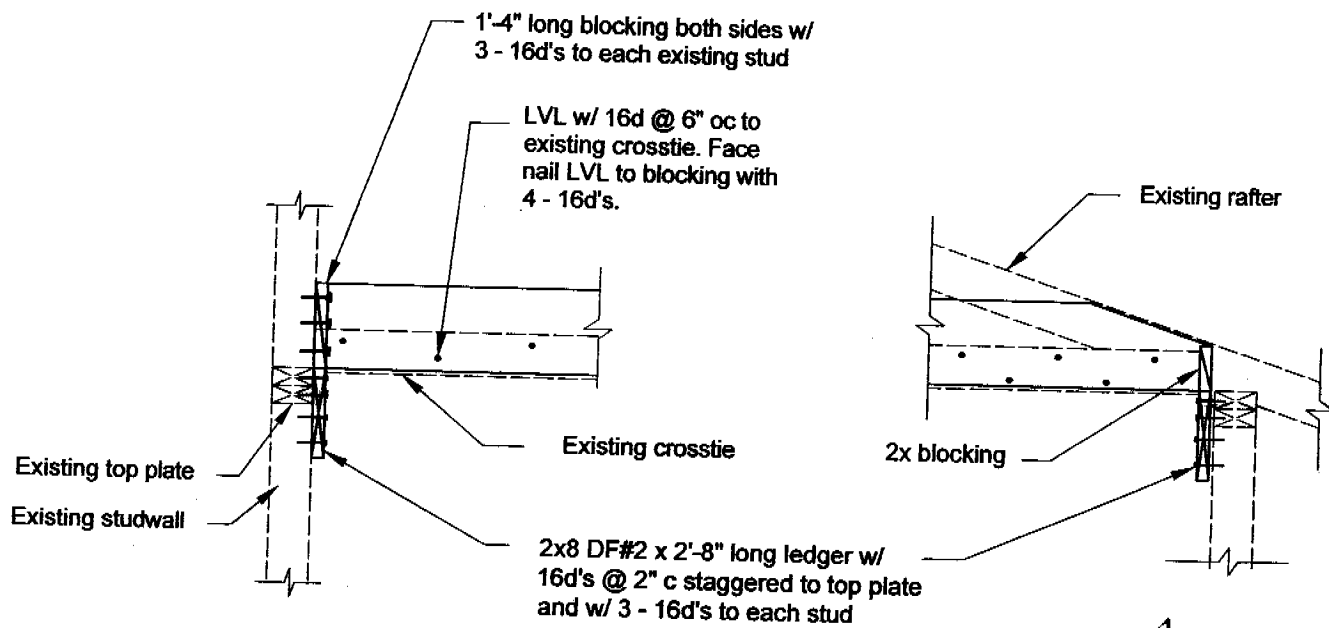
- A. This is a reroof project. The new roofing material shall be a Light Weight Concrete Tile. The tile shall weigh less than or equal to 7.3 psf.
- B. All framing members including rafters, purlins, joists and beams are existing unless otherwise noted in the framing notes above.
- C. All rafters are 2x6 DF#2 and hips and valleys are 2x8 DF#2 unless otherwise noted.
- D. All existing rafter, hips, valleys, rafter ties, and purlins are braced per UBC Section 2320.1 "Roof and Ceiling Framing" unless otherwise shown.
- E. All structural wood members that were observed appear to be in sound condition and without structural defect.

1
**ROOF PLAN - YOKOYAMA**  
 Not to Scale 6





**ALTERNATE CONNECTION AT BEAM**



**2**

**LEDGER CONNECTION**

scale: 1/2" = 1'-0"

