CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0510853
Insp Area: 2
Thos Bros: 336G2

Site Address: 484 PIMENTEL WY SAC
Parcel No: 031-1120-105

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

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

OWNER
RICHARD S & SALLY KADOYA REV TRST
PO BOX 1559
SACRAMENTO, CA 95831

ARCHITECT

Nature of Work: REROOF - TEAR OFF, RESHEET, INSTALL 35SQ OF LIGHT WEIGHT TILE. SEE ENGINEER'S REPORT.

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'sAddress_____

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 7/25/05 Contractor Signature Carolyn Ray

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 7/25/05 Applicant/Agent Signature Carolyn Ray

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 1271896-2004 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 7/25/05 Applicant Signature Carolyn Ray

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.

05 108 53

Kadoya

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

TEL: 916.961.3960
FAX: 916.961.6552

Paul Zacher Structural Engineers

July 3, 2005

REGISTERED PROFESSIONAL ENGINEER
PAUL ZACHER
No. S3878
Exp. 3-31-07
STRUCTURAL
STATE OF CALIFORNIA

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 2005289: KADOYA

Subject: Structural Investigation Report of the Roof for the Residence located at 484 Pimentel 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 June 27, 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:	Two.
Dimensions:	Approximately 3000 square feet.

CONSTRUCTION:

Roof:

The roof covering will consist of a Light Weight Concrete Tile over 7/16" solid sheathing. The roof structure is conventionally framed with 2x6 rafters spaced at 24" on center with 2x6 purlins supported at no more than 10'-0" on center by 2x4 struts bearing on walls below except for the vaulted ceiling areas. The vaulted ceiling is constructed of 2x10 rafters spaced at 16" 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. There is an existing sag in the garage door header of approximately 2 inches due to the original construction.

ISSUED
JUL 23 2005
Sacramento Building Division

CITY COPY

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 1/4" LVL to the existing header. Jack up the existing beam as required where the existing sag occurs to provide an even contour at the roof level before installation of the LVL. See details 1 and 2.
2. Provide additional 2x4 struts from the existing purlins to the bearing walls below. The maximum spacing between the new and existing struts shall not exceed 6'-0" on center. The unbraced length of the struts shall not exceed 8'-0" and the minimum slope of the struts 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.

Sincerely,

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

ISSUED
JUL 25
Sacramento Building Division

DESIGN LOADING:

Roof Pitch	6	in 12
Pitch Adjustment Factor	1.12	

LOCATION: ROOF

MATERIAL	WEIGHT	
Light Weight Tile	7.30	psf
Roofing felt	0.30	psf
1x4 skip sht'g	1.09	psf
7/16" OSB/ plywood	1.30	psf
2x6 rafters @ 24" oc	1.00	psf
Load	11.0	psf
Roof Pitch Adjustment	1.30	psf
Total Load	12.3	psf

LOCATION: VAULT

MATERIAL	WEIGHT	
Light Weight Tile	7.30	psf
Roofing felt	0.30	psf
1x4 skip sht'g	1.09	psf
7/16" OSB/ plywood	1.30	psf
2x10 rafters @ 16" oc	1.51	psf
Batt/blown insul	0.50	psf
1/2" Gypboard	2.50	psf
Load	14.5	psf
Roof Pitch Adjustment	1.71	psf
Total Load	16.2	psf

PAUL ZACHER- STRUCTURAL ENGINEERS, INC.
4701 Lakeside Way
Fair Oaks, Ca 95628
TEL: (916) 961-3960
FAX: (916) 961-6552

Job #: 05_289
Date: 07/03/2005

LOADING:

Rafter:

Dr = 12.3 psf x 2'-0" = 24.6 plf
Lr = 16.0 psf x 2'-0" = 32.0 plf

2x6 #2

24.6 / 32.0
12'-0"

Vault:

Dr = 16.2 psf x 1'-4" = 21.6 plf
Lr = 16.0 psf x 1'-4" = 21.3 plf

2x10 #2

21.6 / 21.3
20'-0"

B1:

Dr = 12.3 psf x 7'-0" = 86 plf
Lr = 16.0 psf x 7'-0" = 112 plf

4x12 #2 + 1-3/4"x11-1/4" LVL

86 / 112
16'-0"

B2:

Dr = 12.3 psf x 5'-0" = 62 plf
Lr = 16.0 psf x 5'-0" = 80 plf

4x10 #1

62 / 80
9'-6"

Paul Zacher Structural Engr's, Inc.
4701 Lakeside Way
Fair Oaks, CA 95628

Title :
Dsgnr:
Description :

Job #
Date: 7:56AM, 3 JUL 05

Scope :

Rev: 580006
User: KW-0602844, Ver 5.8.0, 1-Dec-2003

Timber Beam & Joist

Kadoya.ecw:Calculations

Description RAFTERS AND BEAMS

Timber Member Information

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

		rafter	vault	B1	B2
Timber Section		2x6	2x104x12#2+1.75x11.875		4x10
Beam Width	in	1.500	1.500	6.186	3.500
Beam Depth	in	5.500	9.250	11.250	9.250
Le: Unbraced Length	ft	0.00	0.00	0.00	0.00
Timber Grade		Douglas Fir - Larch, No.2	Douglas Fir - Larch, No.2	Custom, DF#2 + LVL	Douglas Fir - Larch, No.1
Fb - Basic Allow	psi	875.0	875.0	1,450.0	1,000.0
Fv - Basic Allow	psi	95.0	95.0	1,670.0	95.0
Elastic Modulus	ksi	1,600.0	1,600.0	1,666.7	1,700.0
Load Duration Factor		1.250	1.250	1.250	1.250
Member Type		Sawn	Sawn	Manuf/Pine	Sawn
Repetitive Status		Repetitive	Repetitive	No	No

Center Span Data

Span	ft	12.00	20.00	16.00	9.50
Dead Load	#/ft	24.60	21.60	86.00	62.00
Live Load	#/ft	32.00	21.30	112.00	80.00

Results

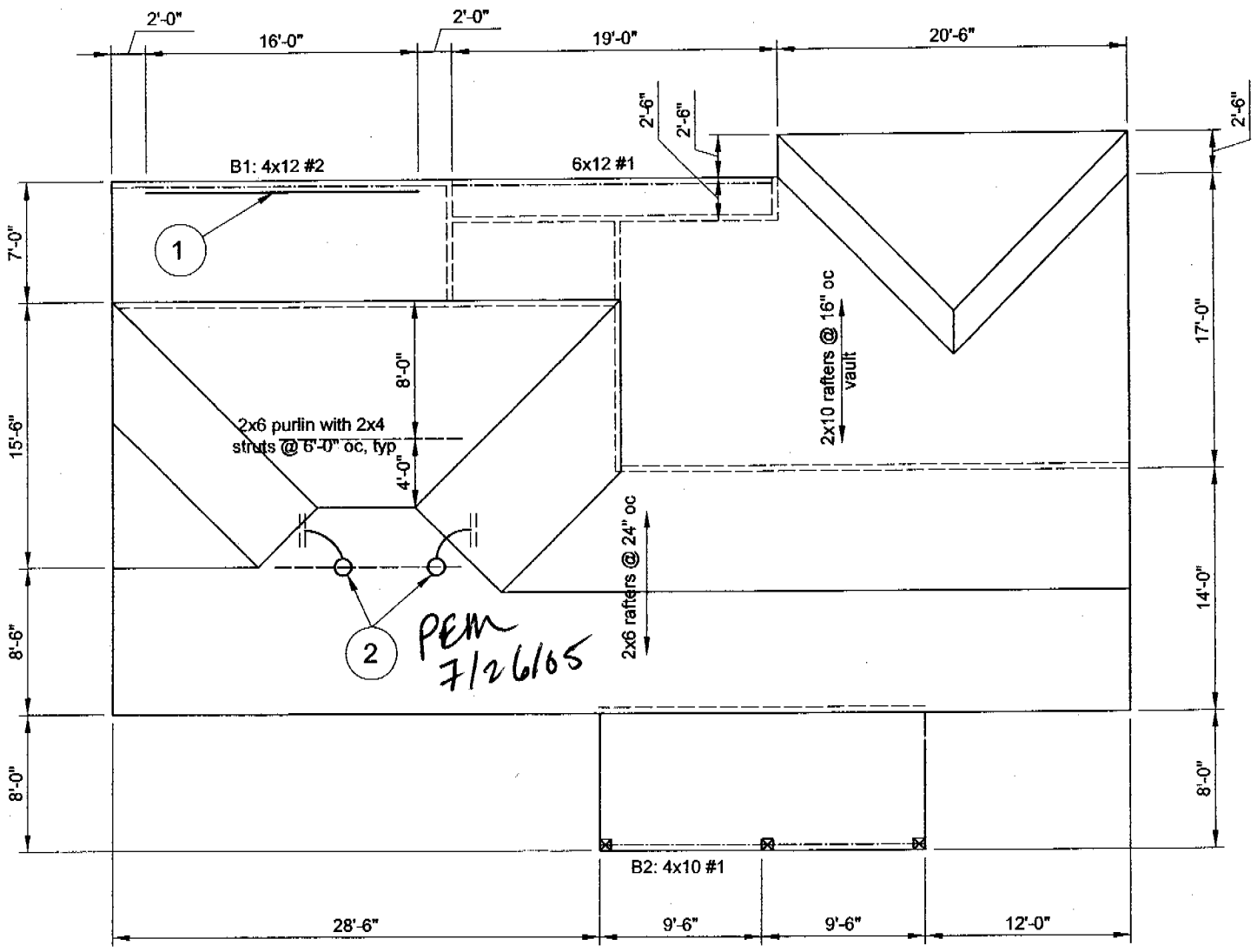
Ratio =		0.9887	0.8697	0.3215	0.2568
Mmax @ Center	in-k	12.23	25.74	76.03	19.22
@ X =	ft	6.00	10.00	8.00	4.75
fb : Actual	psi	1,616.6	1,203.3	582.7	385.1
Fb : Allowable	psi	1,635.2	1,383.6	1,812.5	1,500.0
		Bending OK	Bending OK	Bending OK	Bending OK
fv : Actual	psi	57.3	43.0	30.3	26.3
Fv : Allowable	psi	118.8	118.8	2,087.5	118.8
		Shear OK	Shear OK	Shear OK	Shear OK

Reactions

@ Left End	DL	lbs	147.60	216.00	688.00	294.50
	LL	lbs	192.00	213.00	896.00	380.00
	Max. DL+LL	lbs	339.60	429.00	1,584.00	674.50
@ Right End	DL	lbs	147.60	216.00	688.00	294.50
	LL	lbs	192.00	213.00	896.00	380.00
	Max. DL+LL	lbs	339.60	429.00	1,584.00	674.50

Deflections

		Ratio OK	Deflection OK	Deflection OK	Deflection OK
Center DL Defl	in	-0.345	-0.491	-0.104	-0.029
L/Defl Ratio		417.5	488.6	1,852.2	3,937.4
Center LL Defl	in	-0.449	-0.484	-0.135	-0.037
L/Defl Ratio		320.9	495.4	1,422.2	3,051.5
Center Total Defl	in	-0.794	-0.976	-0.239	-0.066
Location	ft	6.000	10.000	8.000	4.750
L/Defl Ratio		181.5	246.0	804.5	1,719.1



FRAMING NOTES:

1. Scab a 1 3/4" x 11 1/4" LVL to the existing 4x12 beam. See detail 2 .
2. Add 2x4 struts to bearing below (total 2).

ISSUED
JUL 25 2005
Sacramento Building Division

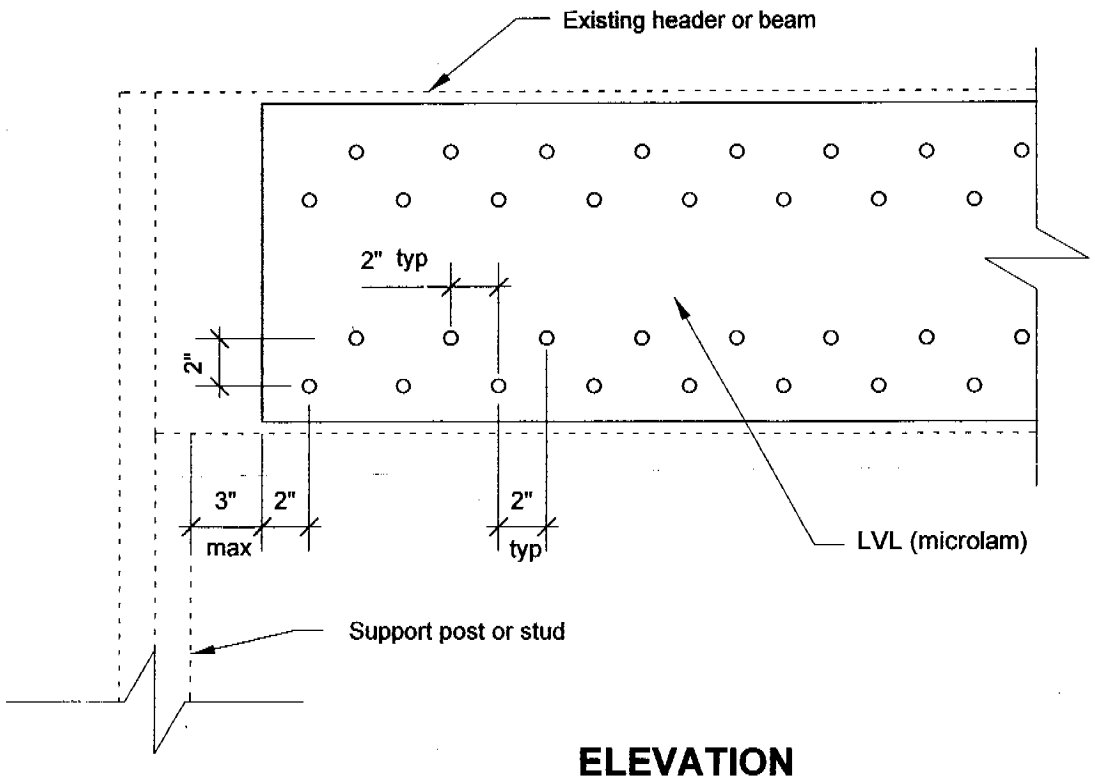
NOTES:

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.

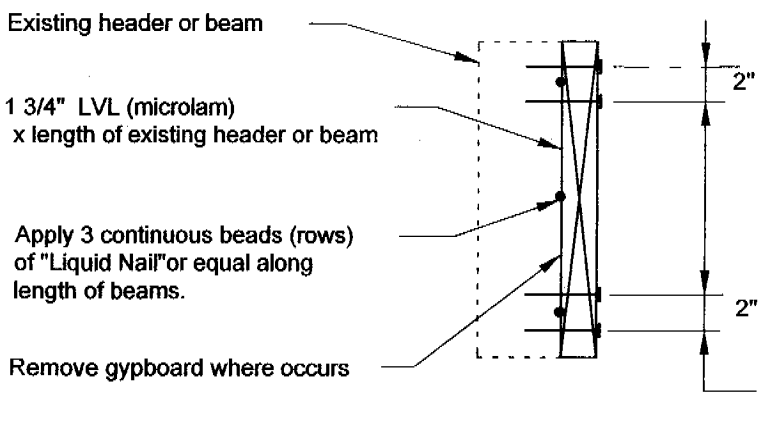
REGISTERED PROFESSIONAL ENGINEER
PAUL KENNETH ZACHER
No. S3878
Exp. 3-31-07
STRUCTURAL
STATE OF CALIFORNIA

1 ROOF PLAN - KADOYA

Not to Scale



ELEVATION



SECTION

REGISTERED PROFESSIONAL ENGINEER
PAUL KENNETH ZACHER
No. S3878
Exp. 3-31-07
STRUCTURAL
STATE OF CALIFORNIA

2 **DETAIL**

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

CITY OF SACRAMENTO
DEVELOPMENT SERVICES DIVISION
FAXED PERMIT APPLICATION (certain restrictions apply)
Fax # 916-264-1911

Fax of request must be received in this office by 1:00 p.m. to be processed the following work day.
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 said fee.

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

☒ RESIDENTIAL ☐ APARTMENTS (4+ units per building) ☐ COMMERCIAL (Industrial)

DRESS: 484 Pimentel WAY Unit #_____ ⇒ CONTRACT PRICE $ 13,000

> CONTACT PERSON: Larry Peer ⇒ CONTACT PHONE: [redacted]-849-1977

ty Owner Mr KADOYA
484 PIMENTAL Way
te/Zip: Sac, CA 95831

Contractor: Weathertite Roofing License #420375
Address: 4661 Summer Creek Ct
City/State/Zip: Shingle Springs, CA 95682
Phone 530-672-1113 FAX: SAME

E OF REQUEST: Indicate from the selections below & provide details under description of work.

DOF (excluding file)
☐ TEAR OFF
☐ RESHEET
USS ☐ GARAGE
TOTALES $ /
S 350
Light Weight Tile

ING
☐ Wood
☐ Tile
☐ Metal
☐ Vinyl
☐ Stucco

Color approval may be required in certain areas

☐ HVAC INSTALLATIONS (Residential ONLY)
☐ CHANGE-OUT ☐ NEW
☐ Heat Pump
☐ Package
☐ Split system
☐ Roof mount
☐ Coil-in
☐ Heat pump or electric unit to gas
☐ Wall furnace
☐ Other (describe below)

Value of direct work:
Equipment: $_____
Cost: $_____

Note:
Design Review approval may be required for rooftop units.

☐ WATER HEATER (residential ONLY)
☐ GAS ☐ ELECTRIC
☐ Change out
☐ Electric to Gas
☐ Relocate
☐ New

☐ ANY NON-DOLLAR MINOR DAMAGE REPAIR (Description below)

Note:
Design Review approval may be required in certain areas

☐ MINOR ELECTRIC and/or MINOR PLUMBING (residential ONLY)
☐ Electric Service Change # amps _____
☐ New electric service
☐ Re-wire
☐ Water Service Replacement
☐ Sewer Service Replacement
☐ Gas Line Replacement
☐ Repairs
☐ Water ☐ Waste

☐ PUBLIC UTILITIES SAFETY INSPECTION (Residential and single family ONLY)

☐ SMUD
☐ PGE

NOTE
Correction Notice will require an addl building permit

RIPTION OF WORK: Tear Off Shakes, Reshee, Replace with Light weight tile