

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0204252

Insp Area: 3

Thos Bros: 318 C3

Site Address: 4461 71ST ST SAC

Parcel No: 021-0341-020

Sub-Type: RES

Housing (Y/N): N

CONTRACTOR

FONG'S ROOFING
34250 CR 19
WOODLAND CA 95695

OWNER

TATEISHI KIYOSHI/SUSIE
4461 71ST ST
SACRAMENTO CA 95820

ARCHITECT

Nature of Work: REMOVE EXIST. ROOFING, INSTALL NEW CONCRETE TILE ROOF 27 SQ

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 _____ License Number 650002 Date 4-1-02 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 above-mentioned property for inspection purposes.

Date 4-1-02 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.

[Signature] 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 COMPENATION INS Policy Number 285-0002068 Exp Date 01/01/2003

(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.

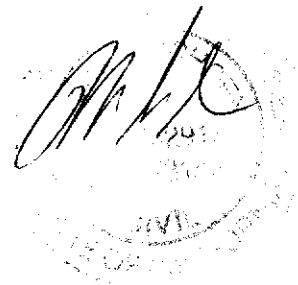
Date 4-1-02 Applicant Signature [Signature]

WARNING: FAILURE TO SECURE WORKERS' 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 ATTORNEYS FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

SCHOEN ENGINEERING

9524 BEDINGTON WAY
SACRAMENTO, CA 95827
Licensed by the California State
Board for Engineers and Land Surveyors



(916) 441-1300 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 permit or approve the construction in any way violative of state law.

Buck Fong
Fong's Roofing
34250 County Road 19
Woodland, CA 95695

4/11/02

OBTAIN INSPECTIONS PRIOR TO ROOFING

SUBJECT: Reroof at 4461 71st Street, Sacramento, CA 95820
Daren:

All work subject to field inspection and necessary modification.

On March 15th 2002 I inspected the roof structure of the residence at the above mentioned address. The roof was made up of 2x4 D.F. No. 2 rafters @ 2' o.c. with a max span of 7'-6" in the attic areas of the house and 9'-2" in the garage. There was a beam supporting the rafters at the front porch area composed of 3-2x8's spanning 11'-6". Roof slope was 4:12.

The following modifications will be necessary prior to reroofing:

- * In the garage some of the rafters are overspan. All rafters with over an 8' span should be doubled with a 2x4 D.F. No. 2. The reinforcing rafter should be attached to the existing rafter with 2-16d nails @ each end and 16d nails @ 16" o.c. in the field. The reinforcing rafter should terminate within 6" of the plate or ridge board(see plan for location and sketch for details).
- * In the garage the short section of ridge connecting the main roof and the garage roof should be braced with a 2x4 brace off of the garage wall by the entry door(see plan for location and sketch for detail).
- * In the main wing of the house some of the purlin braces to both the front and back slopes are at too shallow of an angle to be effective purlin braces. However, they are O.K. for individual rafter braces. The remaining rafters in this area that do not have braces should be braced off of the two hall walls. The ridge board in this area should be braced with a 2x4 brace @ 6' o.c. and the opposing pairs of rafters should be tied across the top of the ridge with Simpson MST18 steel strap ties with 5-10d or 8d common nails into each rafter. The ties should be installed on top of the skip sheathing(see plan for location and section for details).

It is my finding that with the above mentioned modifications this structure is adequate for the following : 1/2" or 7/16" OSB or plywood over the existing skip sheathing; 30 lb. Tarred felt; 1x2 batts; Concrete tile weighing 5.5 lbs./sq.ft..

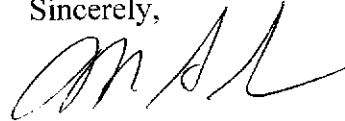
NOTE: it is possible when reroofing that the increased load to structural elements also supporting wall, ceiling and floor finishes could cause some minor cosmetic cracking of these finishes. This is typical of wood framed structures and does not of itself indicate structural inadequacy of these members.

This report deals with the structural adequacy of roof supporting members that were readily

observable. It does not address any structure that was covered by wall finishes, buried in the ground or was otherwise not observable. Any such structures were assumed to conform to standard construction specifications in the Uniform Building Code. Also, it does not address any existing deflection or warping of roof surfaces, nor is it guaranteed that any structural modifications that may be listed in this report will remove such deflections or warping. The repair of such deflections or warping to improve architectural appearance is at the option of the building owner and the roofing contractor.

I would like to thank you for allowing me to provide my services in this matter. Please let me know if I may be of further assistance.

Sincerely,

A handwritten signature in black ink, appearing to read 'MS', written in a cursive style.

Mark S. Schoen P.E.

MSS:mss
S-ENG2002\FRF001.001

Calculation for the required area, section modulus and moment of inertia for simple span wood beams. Dead load(dl) and Live load(ll) are in pounds per square ft., Spans(l) and Tributary load length or spacing(sp) are in ft., Areas are in sq.in., Section moduli are in inches cubed and Moments of inertia are in inches to the 4th power. Allowable stresses (Fy),(Fb),(Fv) are in lbs./sq.in. per 1991 U.B.C.(based on original construction before 1991)

3-2x8 DOUGLAS FIR NO. 2 FRONT PORCH BEAM

Loads: ---

Frame(2x4 RAFTERS): fr := 1 skip sht: pur := 1 Plywood: ply := 1.5

Roofing: rf := 5.5 misc := .5 Soffit: clg := 2.5

Total roof dead load: rdl := fr + pur + ply + rf + misc + clg

Beam weight: Wdl := 7.25 * $\frac{4.5}{144}$ * 35 Wdl = 7.93 Beam length: l := 11.5

Roof trib area per ft.: rta := 6

Total area for live load determination: rta * l = 69 Roof live load: rll := 16

fdl := 30 fl := 40 fta := 0

wt := (rta * (rdl + rll) + fta * (fdl + fl)) + Wdl Cd := 1.25

Fb := 1250 Fbp := Fb * Cd Fbp = 1562.5 Ew := 1700000 Fv := 95 * Cd

A min. required =
$$\frac{l \cdot \frac{wt}{2} \cdot \left(\frac{3}{2}\right)}{Fv} = 12.778$$

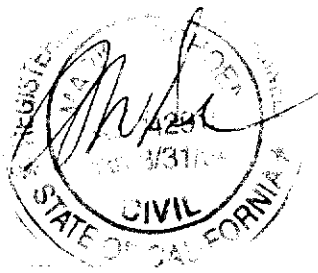
S min. required =
$$wt \cdot l^2 \cdot \frac{1.5}{Fbp} = 22.336$$

I min. required =
$$5 \cdot wt \cdot \frac{(l \cdot 12)^4}{12 \cdot 384 \cdot Ew \cdot l \cdot \frac{12}{240}} = 70.827$$

Check Beam properties:

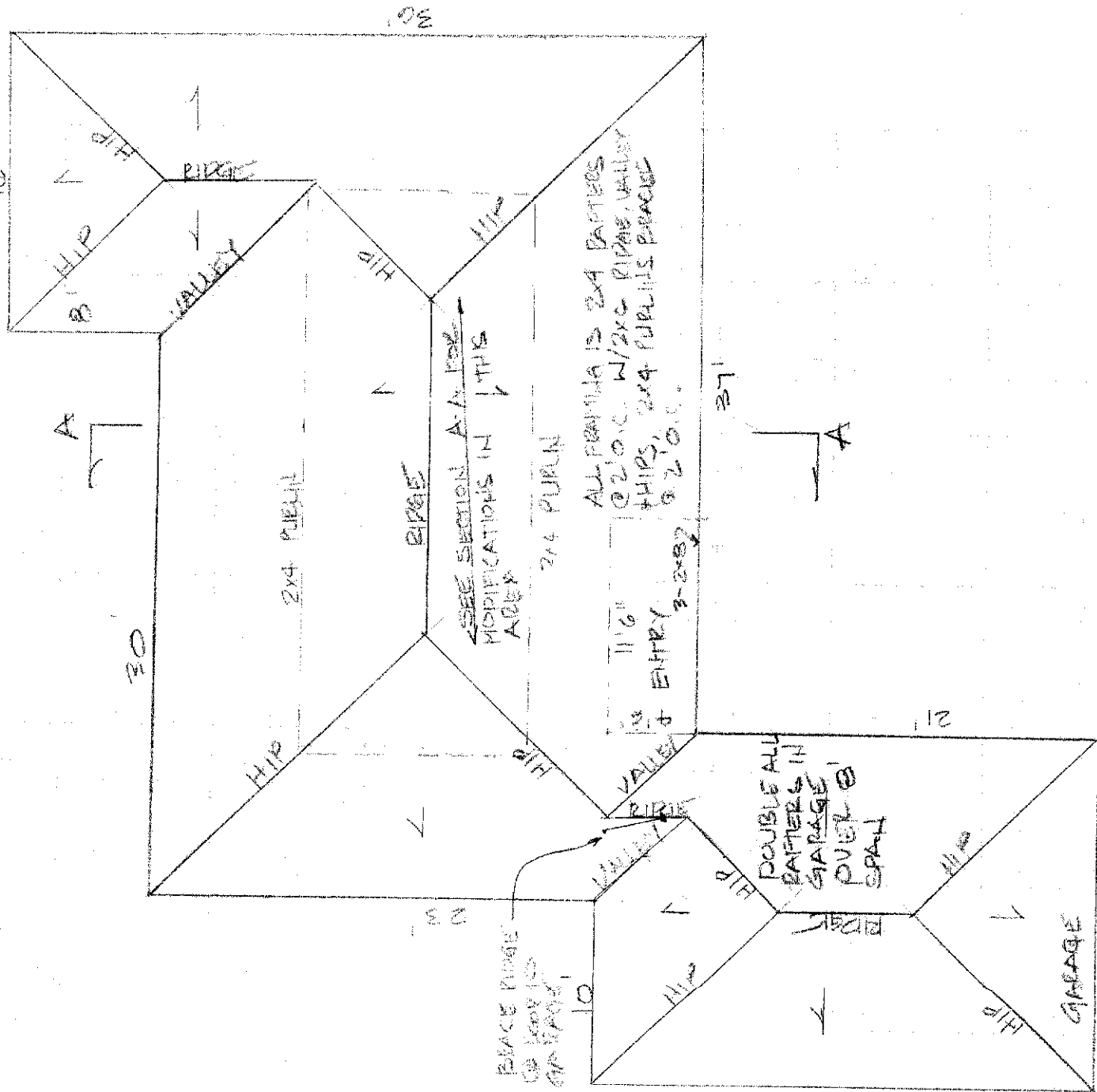
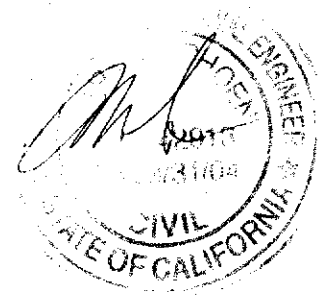
CF := $\left(\frac{12}{d}\right)^{\frac{1}{9}}$ w := 4.5 d := 7.25
A := w * d S := w * CF * $\frac{d^2}{6}$ I := w * $\frac{d^3}{12}$ Stiffw := I * Ew

-A = 32.625 > 13 S = 41.692 > 22 I = 142.904 > 71 therefore O.K.



ROOF PLAN FOR
 4441 71st STREET
 SACRAMENTO, CA 95820

NOTE: IS OVERHANG
 ALL AROUND
 NOT SHOWN

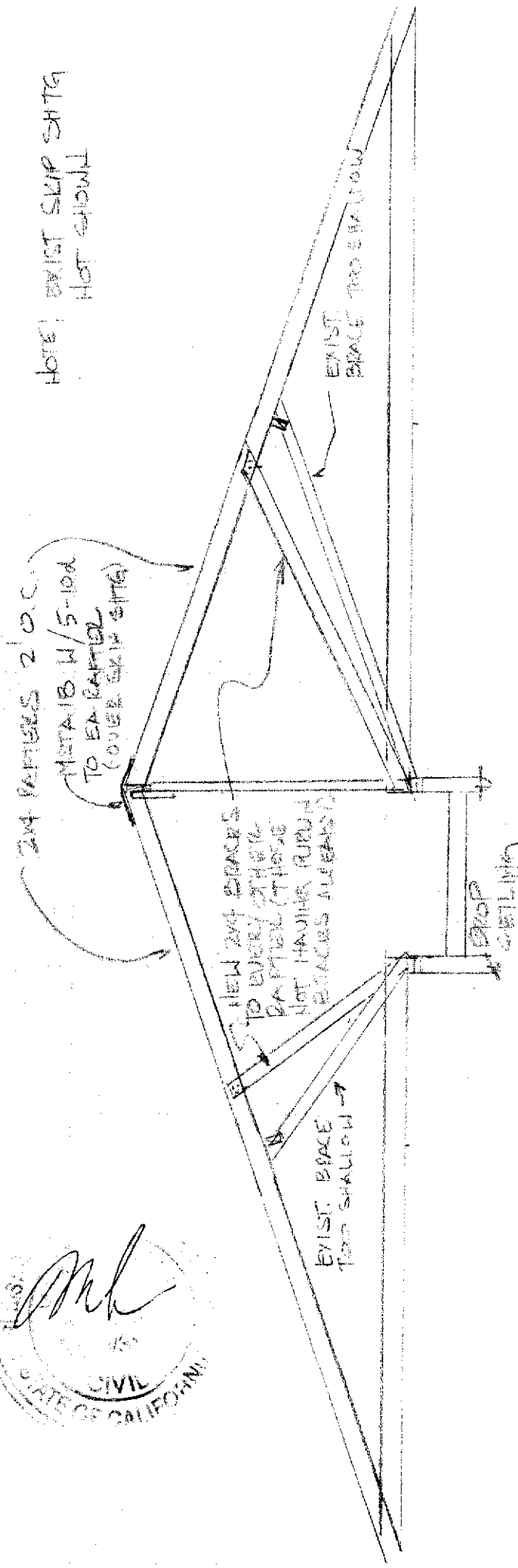


SEE SECTION A-A FOR
 MODIFICATIONS IN THIS
 AREA

ALL FRAMING IS 2x4 RAFTERS
 @ 2' O.C. W/ 2x6 RIPPED VALLEY
 # HIP, 2x4 PURLINS BRACE
 @ 2' O.C.

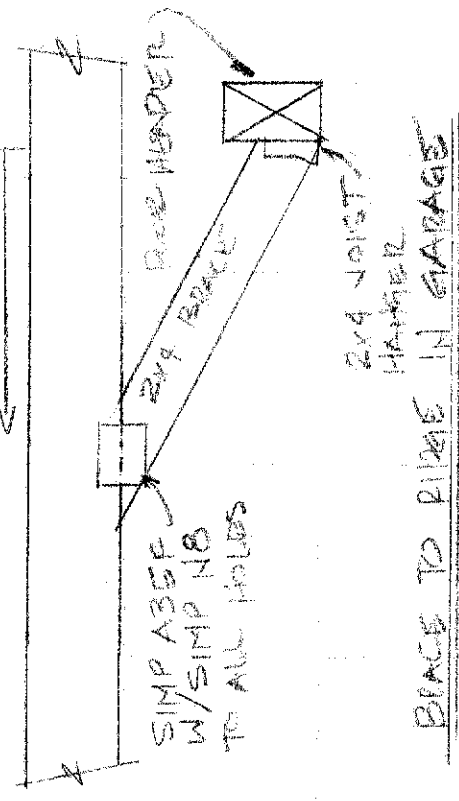
DOUBLE ALL
 RAFTERS IN
 GARAGE
 OVER
 SPAN

BRACE RIDGE
 OR BRACE TO
 GARAGE

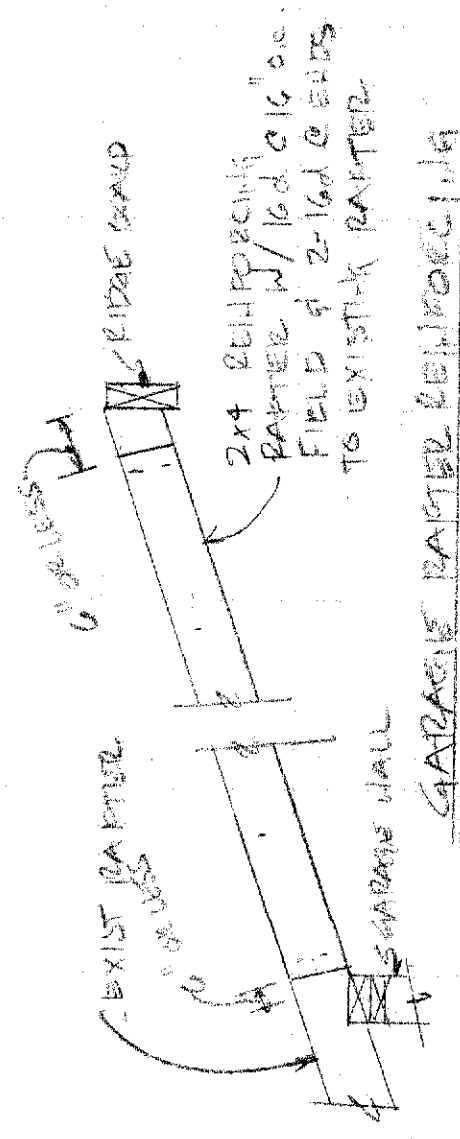


NOTE: EXIST SKIP SHITG
NOT SHOWN

SECTION A-A



BRACE TO PIPE IN GARAGE



GARAGE RAFTER REWORKING