

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0000883
Insp Area: 1

Site Address: 8503 LA RIVIERA DR SAC
Parcel No: 078-0032-002

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

CONTRACTOR
CHRISTOPHER J. LATTUADA

OWNER
JON LISA KATZ
8503 LA RIVIERA DR
SACTO CA. 95826

ARCHITECT

Nature of Work: MOVE WALL INSTALL 6 LIGHTS ON TWO SWITCHES.

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 768320 Date 1/31/00 Contractor Signature John Birdsong

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 1/31/00 Applicant/Agent Signature John Birdsong

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 coverage, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. The carrier and policy number are:

Carrier CLARENDON NATIONAL CO. Policy Number 02KR0000954 Exp Date 03/13/2000

____ (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 1/31/00 Applicant Signature John Birdsong

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.

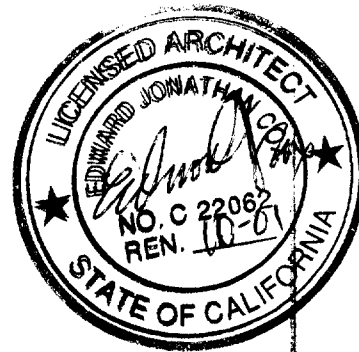
CITY COPY

0000883

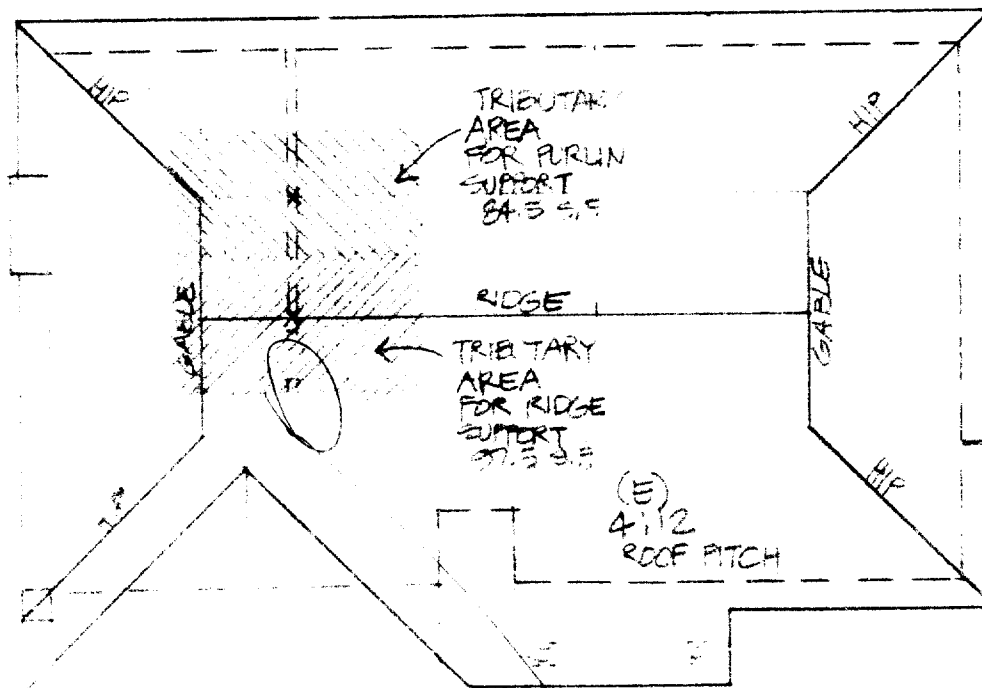
8503 LA RIVIERA DR.



Edward J. Cox
2118 E Street
Sacramento, CA 95811



- 28'6"



6'6"

Verify there is a 1'7" x 1'7" footing under south end of beam.

Matt P. 1/31/00

SITE PLAN

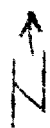
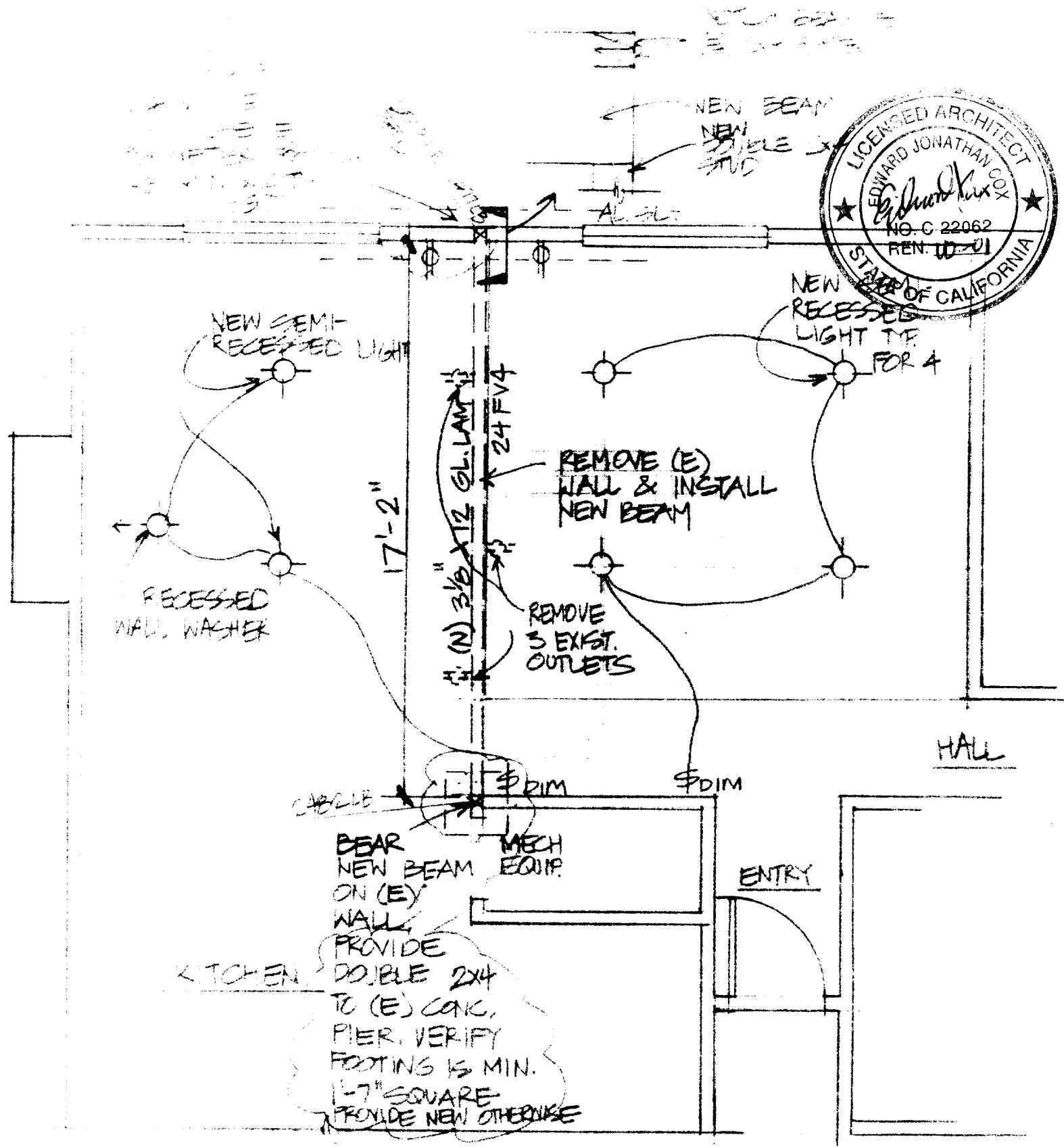
1" = 20'-0"

KATZ RESIDENCE
8503 LA RIVIERA DR
SACRAMENTO, CALIF.

6'6"

20'

To The Street



FLOOR PLAN

1/4" = 1'-0"

KATZ RESIDENCE

2503 LA RIVIERA DR.
SACRAMENTO, CALIF.

Katz Residence 8503 La Riviera

Beam Size

Roof Dead Loads:

Composition shingle roof				3.00 psf	
Sheathing				1.50 psf	
Roof framing	3 1/2	16		0.96 psf	
Total roof				5.46 psf	
Contributing area of roof:					
Roof slope, rise; run	4.00	12.00			
Angle, degrees; 1/cos q multiplier	18.43	1.05			
Increased roof weight due to slope	1.05	x		5.46	5.75
shown rounded to:				6 psf	

Roof Live Load:

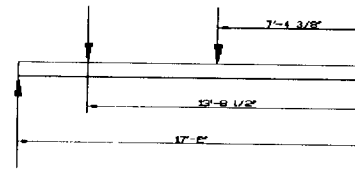
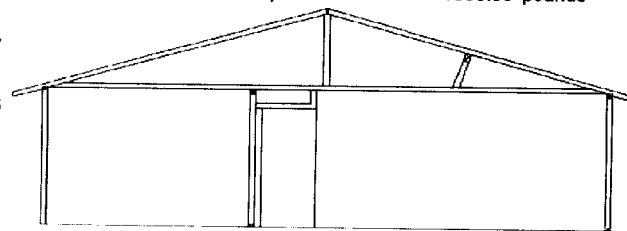
UBC--Greater than 4:12 slope: **16 psf**

Loading Characteristics:

Area 1	97.50 square feet
Area 2	84.50 square feet

Loading	Dead Load	Live Load	Total Load
Load 1	560.84 pounds	1560.00 pounds	2120.84 pounds
Load 2	486.06 pounds	1352.00 pounds	1838.06 pounds

Beam length:	17.17
Location of load 1	13.71
or	3.46
Location of load 2	7.36
or	9.80



Reactions

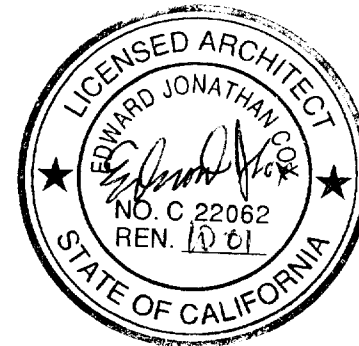
$$R_1 = ((13.71)(2121) + (7.36)(1838)) / 17.16$$

$$R_2 = ((3.46)(2121) + (9.80)(1838)) / 17.16$$

	Dead Load	Live Load	Total Load
R ₁ =	656.38 pounds	1825.74 pounds	2482.12 pounds
R ₂ =	390.52 pounds	1086.26 pounds	1476.78 pounds
Total	1046.90 pounds	2912.00 pounds	3958.90 pounds

Check Shear

Reactions/maximum vertical shear	2482.12 pounds
Horizontal shear=3/2V	3723.18 pounds
Using DF #2. F _v =	165.00 psi
Minimum area = 3/2(V _{max} /F _v) =	22.56 in ²



Pages 1-2

Check Bending Strength

Moment at R ₁ :	0.00
Moment at load 1:	8584.00
Moment at load 2:	10875.88
Moment at R ₂ :	0.00
Maximum moment = $wl^2/8 + P \cdot l/3$	10875.88 ft-pounds
Max. moment converted to in-lb	130510.56 in.-pounds
Using DF-120 <i>Glue Lam</i>	2400.00 psi
Minimum section modulus, $M/F_b =$	54.38 in³

Check Deflection

Modulus of elasticity	1.80E+06 psi
Maximum live load deflection, $l/360$	0.57 inches
Estimated deflection for load 1 ($Pa^2b^2/3EI$)	
Where P = L1	1560.00 pounds
I required:	114.22 in ⁴
Estimated deflection for load 2 ($Pl^3/48EI$)	
Where P = L2	1352.00 pounds
I required:	239.06 in ⁴
Total I required:	353.27 in⁴

Use 3 1/8" x 12" Glue Lam**A= 37.50****S= 75.00****I= 450.00****Maximum notch cut at end****4.78 inches**

Electrical Load Calculation for 1300 s.f. House

"Lighting Load	1,300	3,900 VA	(NEC 220-3(b))
Small Appliances	2	3,000 VA	(NEC 220-16(a))
Laundry Circuit		1,500	(NEC 210-52(f) Ex 1)

"Lighting Load" Subtotal = 8,400 VA

"Lighting Load" Adjustments:

First 3000VA		3,000 VA	(NEC 220-11)
Remainder und	5,400	1,890 VA	(NEC 220-11)

Total "Lighting Load" = **4,890 VA**

Household Cooking Appliances:

Oven/Range **8000 VA**

Additional Appliances:

Microwave		1,000 VA	
Refrigerator		500 VA	
Dishwasher		1,200 VA	
Disposal		600 VA	
Additional Appliance Subtotal		3,300 VA	
Reduction if 4 or more	75%	2,475 VA	(NEC 220-17)
Additional Appliance Total =		2,475 VA	

Dryer Load - Gas **0 VA**

HVAC Loads (2.5 ton A/C unit)
(includes largest motor factor) **7,000 VA** (estimate)

Total at Typical Unit = **22,365 VA**

22365 VA / 240 1PH = 93 Amperes

Remove three outlet receptacles:	-540 VA
Add two outlet receptacles:	360 VA
Add 7-75 watt lights:	525 VA
Net load increase	345 VA

New load	22,365	+	345	
		=		22,710

22710 VA / 240 1PH = 95 Amperes

Existing 100 Ampere Service is adequate.

