

**CITY OF SACRAMENTO**

**1231 I Street, Sacramento, CA 95814**

**Permit No: 0007918**

**Insp Area: 3**

**Site Address: 2349 HOOKE WY SAC**

**Parcel No: 018-0212-021**

**Sub-Type: ASFR**

**Housing (Y/N): N**

**CONTRACTOR**

PETKUS BROS  
3068 SUNRISE BL  
RANCHO CORDOVA CA

**OWNER**

ARCHULETA ABUID A & VIRGINIA  
2349  
SACRAMENTO CA 95822

**ARCHITECT**

**Nature of Work: PATIO COVER**

**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.

X License Class B License Number 670242 Date 7-12-00 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 abovementioned property for inspection purposes.

X Date 7-12-00 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.

\_\_\_\_ 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, CITY OF SACRAMENTO Policy Number 200813-U-502 Exp Date 10-1-00

(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 comply with those provisions.

X Date 7-12-00 Applicant Signature [Signature]

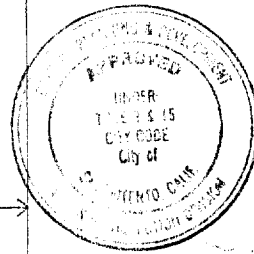
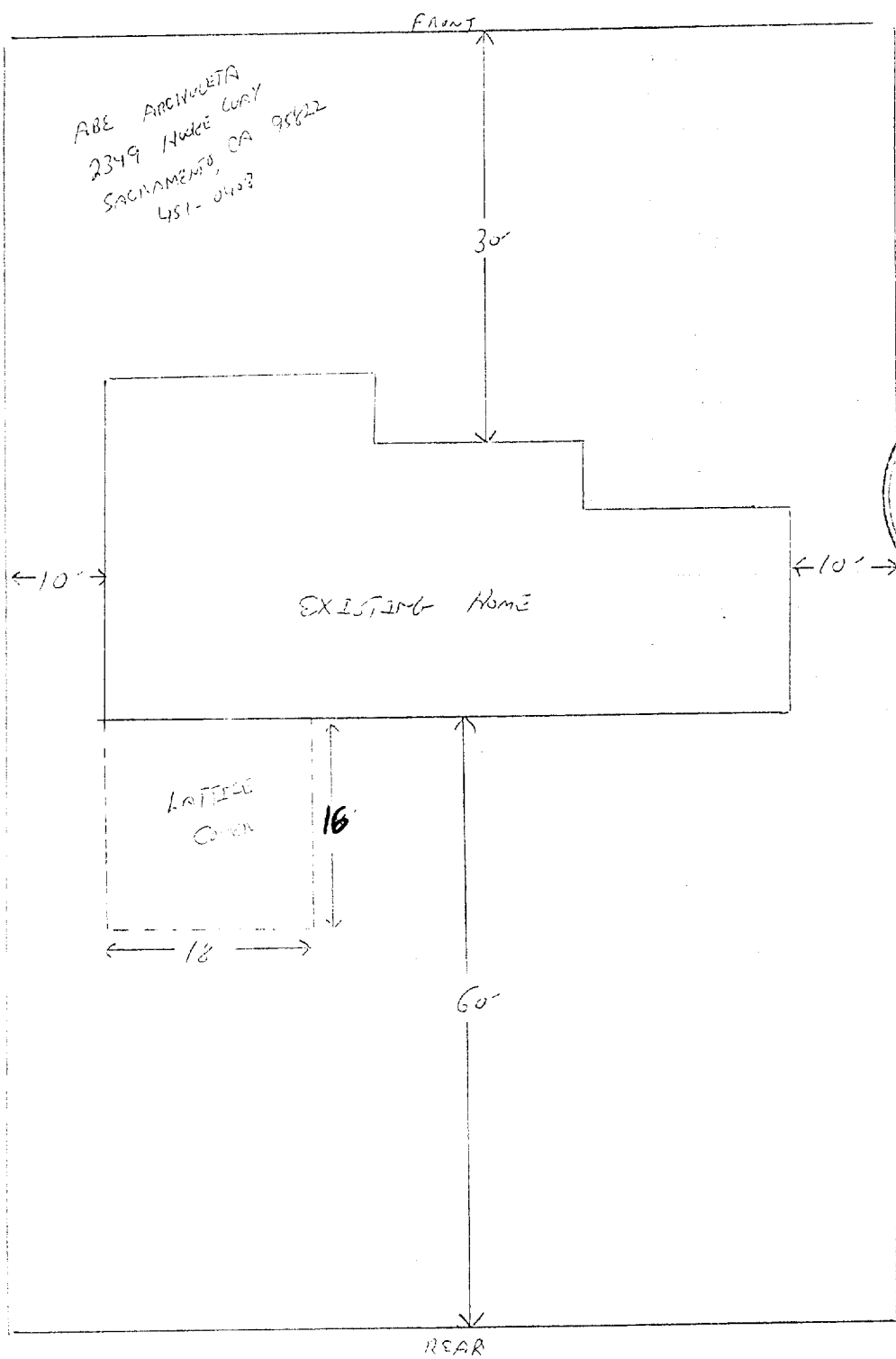
**WARNING:** FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

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

ISS

JUL 9

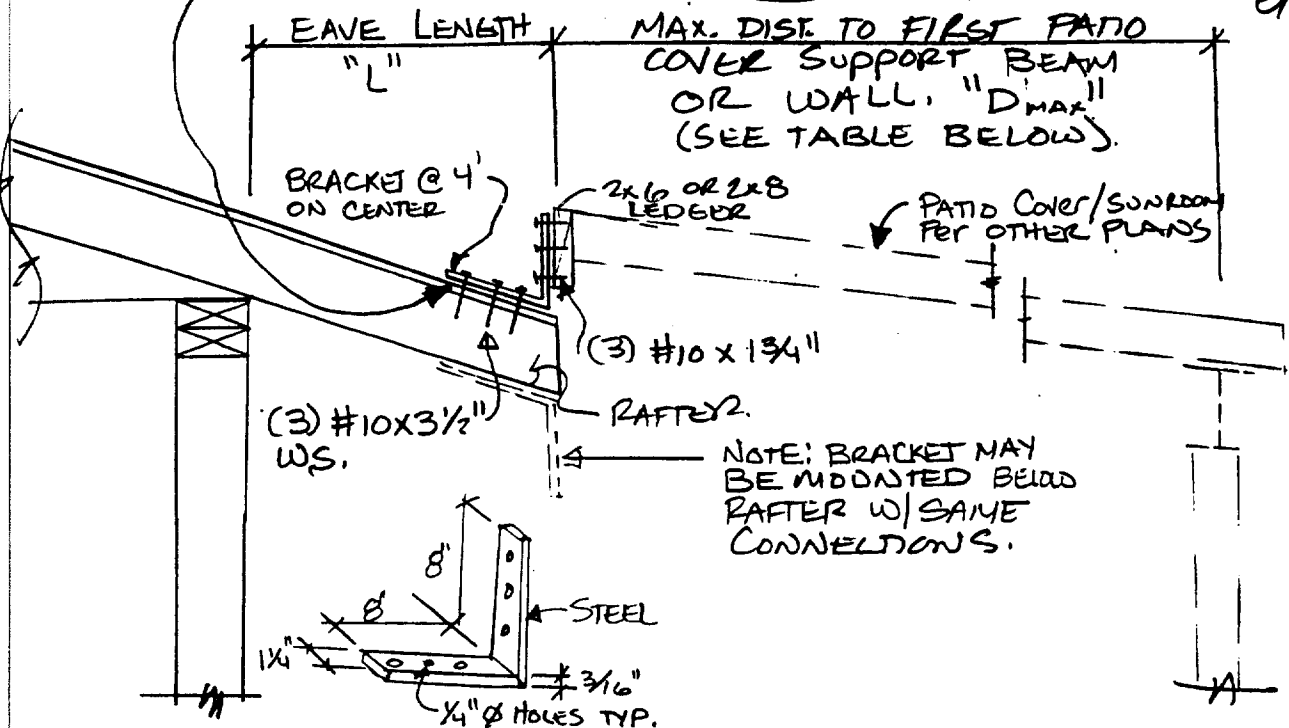
CITY OF S  
DEVELOPMENT



This kept on to make same v Building. The SHALL violati

NOTE: PLACE "SIKA FLEX" OR SIMILAR MATERIAL BETWEEN BRACKET AND COMP SHINGLE ROOFING TO PROVIDE SEAL

B/S/98

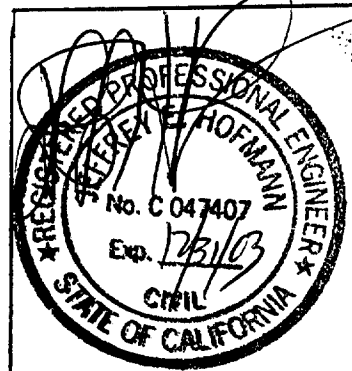


TYPICAL BRACKET  
N.T.S.  
"L" "Dmax"

ROOF LIVE LOAD (PSF)	RAFTER SPACING (IN)	EAVE LENGTH (IN)	MAX DISTANCE TO FIRST PATIO COVER SUPPORT BEAM OR WALL.
10	16	12	38'-10"
		16	29'-8"
		24	18'-3"
	24	12	25'-11"
		16	19'-3"
		24	12'-2"
20	16	12	22'-6"
		16	17'-3"
		24	10'-2"
	24	12	15'-0"
		16	11'-6"
		24	6'-8"

THIS DIMENSION SHOWN DOES NOT INCREASE THE ALLOWABLE SPAN OF ROOF AS SHOWN ON PATIO COVER PLAN

NOTE: THIS DETAIL IS INTEND FOR USE WITH PATIO COVERS/SUN ROOMS THAT ARE USED Per 1997 UBC, APPX 31, DIV III



NO COVER SHEET

STANDARD DETAIL FOR SUPPORT OF PATIO COVER @ EXISTING 2x4 (MIN) #2DF EAVE

JOB #:	DATE
97-704	8/20/97

PACIFIC CONSULTING ENGINEERS  
2100 BELL AVE., SUITE 145  
SACRAMENTO, CA 95838

13 782 500 SHEETS, FULLER 5 SQUARE  
42 381 50 SHEETS, EYE-EASE 5 SQUARE  
42 382 100 SHEETS, EYE-EASE 5 SQUARE  
42 383 100 SHEETS, EYE-EASE 5 SQUARE  
42 384 100 RECYCLED WHITE 5 SQUARE  
42 385 200 RECYCLED WHITE 5 SQUARE  
Made in U.S.A.  
National Brand

DESIGN: CONNECTION TO TOP OR BOTTOM OF EAVE FOR SUPPORT OF LATTICE COVER, PATIO COVER OR SUNROOM STRUCTURES INSTALLED PER REQUIREMENTS OF 1997 UBC APPENDIX 31 DIV. III

LOADS

LIVE LOAD = 10, 20 PSF      DEAD LOAD = 5 PSF (COVER)  
WIND: 80 mph - PUP = 13 PSF      DEAD LOAD (EAVE) = 10 PSF

FIND MAX ALLOWABLE LOADS TO 2x4 EAVE (#2DF).

$$V_{ALL} = \frac{1.5(3.5)(95)(1.25)}{1.5} = 416\#$$

$$M_{ALL} = \frac{3.06 \text{ in}^3 (875) \sqrt{\text{size}} \text{ LDF}}{12} (1.5) (1.25) = 418 \text{ lbf-in}$$

$$\Delta_{ALL} = \frac{L(12)}{R 180}$$

$$V_{ACT} = P + WL \leq 416\# \Rightarrow P_{MAX} = 416\# - WL \quad (1)$$

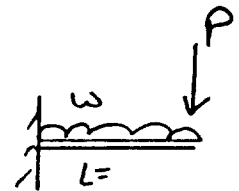
$$M_{ACT} = \frac{WL^2}{2} + PL \leq 418 \Rightarrow P_{MAX} = \frac{418 - \frac{WL^2}{2}}{L} \quad (2)$$

$$\Delta_{ACT} = \left[ \frac{WL^4}{8EI} + \frac{PL^3}{3EI} \right] (1728) \leq \frac{L(12)}{180} = \frac{L}{15}$$

$$\Rightarrow P_{MAX} = \left[ \frac{L}{15(1728)} - \frac{WL^4}{8EI} \right] \left( \frac{3EI}{L^3} \right) \quad (3)$$

USE P<sub>MIN</sub> FROM 3 CASES!

$$EI = 8575000$$



FIND MAX TRIB WIDTH FROM COVER

$$P_{MIN} = \text{TRIB WIDTH} (LL + \text{SPSF}) \left( \frac{\text{SPACING}}{12} \right)$$

$$\text{MAX TRIB WIDTH} = \frac{P \left( \frac{12}{\text{SPACING}} \right)}{(LL + \text{SPSF})}$$

MAX DIST. TO FIRST PATIO COVER = 2 (TRIBUTARY WIDTH) SUPPORT.

PACIFIC CONSULTING ENGINEERS  
280 BELL AVE., SUITE 145  
SACRAMENTO, CA 95833

SEE COMPUTER PRINT OUT NEXT PAGE

**TABLE 1: MAXIMUM POINT LOAD TO 2x4 #2 DF EAVE**

EAVE LENGTH (INCHES)	10 PSF ROOF LIVE LOAD									
	16 " RAFTER SPACING 26.67 = w, PLF			LOAD TO USE	MAX TRIB WIDTH FROM COVER	24 " RAFTER SPACING 40.00 = w, PLF			LOAD TO USE	MAX TRIB WIDTH FROM COVER
	(V)	(M)	(DEFL)			(V)	(M)	(DEFL)		
12	388.96	405.37	982.48	388.96	19.45	375.63	398.70	977.48	375.63	12.965278
16	380.07	296.25	968.77	296.25	14.81	362.29	287.36	956.92	287.36	9.8749367
24	362.29	182.68	912.48	182.68	9.13	335.63	169.35	872.48	169.35	6.089464

EAVE LENGTH (INCHES)	20 PSF ROOF LIVE LOAD									
	16 " RAFTER SPACING 40 = w, PLF			LOAD TO USE	MAX TRIB WIDTH FROM COVER	24 " RAFTER SPACING 60 = w, PLF			LOAD TO USE	MAX TRIB WIDTH FROM COVER
	(V)	(M)	(DEFL)			(V)	(M)	(DEFL)		
12	375.63	398.70	977.48	375.63	11.27	355.63	388.70	969.98	355.63	7.51
16	362.29	287.36	956.92	287.36	8.62	335.63	274.03	939.14	274.03	5.75
24	335.63	169.35	872.48	169.35	5.08	295.63	149.35	812.48	149.35	3.39

	2x4 #2 DF			2x6 #2 DF
	(BASIC)	1.25	1.33	
V(all)	332.50	415.63	442.23	
M(all)	334.96	418.70	445.50	
EI	8575000			

CONNECTION OF BRACKET TO EAVE RAFTER

$T_{MAX} = 389\#$  (IF BRACKET MOUNTED TO BOTTOM OF EAVE.)

TALL (#10 WS w/ 1/2" PENET) =  $(95\#/in) (1.5") = 142\#/\text{screw}$

MIN # OF SCREWS =  $\frac{389\#}{142} = 2.73 \Rightarrow$

USE (3) #10 W.S. FROM BRACKET TO EAVE RAFTER.

CONNECTION OF LEDGER TO BRACKET

$V_{MAX} = 389\#$

$V_{ALL} (\#10 WS) = (143\#/\text{screw}) (1.25) = 178.75\#/\text{screw}$

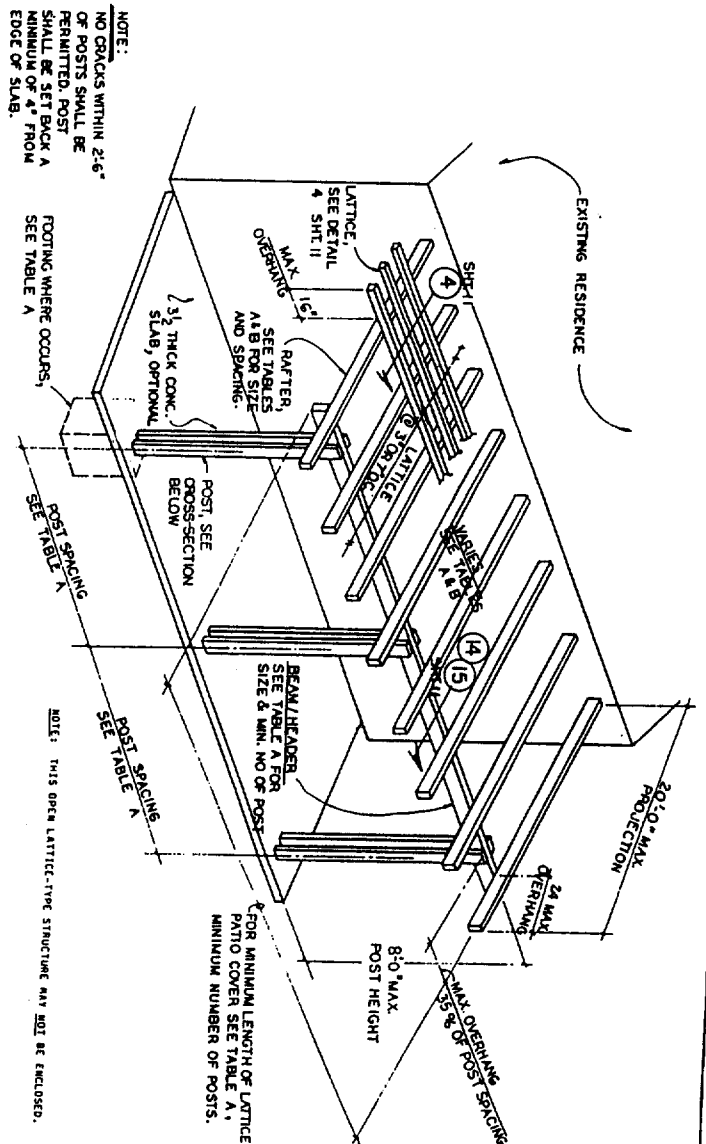
MIN # OF SCREWS =  $\frac{389}{179} = 2.17 \Rightarrow$

USE (3) #10 W.S. FROM BRACKET TO LEDGER.

ATTACHED LATTICE PATIO COVERS

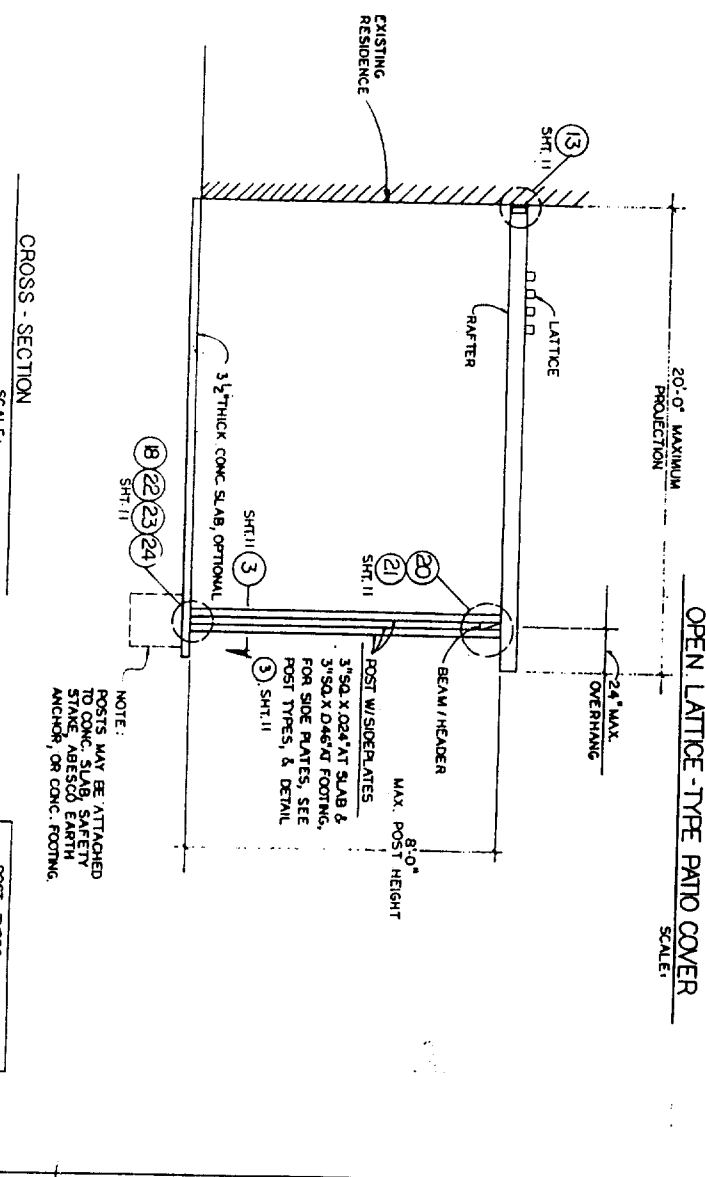
(WIND SPEED = 70 & 90 MPH)

TABLE A



NOTE:  
NO CRACKS WITHIN 2'-6" OF POSTS SHALL BE PERMITTED. POSTS SHALL BE SET BACK A MINIMUM OF 4" FROM EDGE OF SLAB.

NOTE: THIS OPEN LATTICE-TYPE STRUCTURE MAY BE ENCLOSED.



CROSS-SECTION SCALE:

- GENERAL NOTES AND SPECIFICATIONS:**
1. Allowable design and stresses shall be in accordance with the Uniform Building Code and the 1995 edition of the Aluminum Construction Manual.
  2. All aluminum framing shall be anodized for protection against corrosion.
  3. All steel framing shall be galvanized for protection against corrosion.
  4. All fasteners shall be stainless steel.
  5. All items pertaining to each particular installation shall be checked with the manufacturer's literature.
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  11. For all detail references, see Sheet II of 12.

**POST TYPES**

1	3" SQ. POST (2) - 2"x6 1/2"
2	3" SQ. POST (2) - 2"x6 1/2"
3	3" SQ. POST (2) - 2"x6 1/2"
4	3" SQ. POST (2) - 2"x6 1/2"
5	3" SQ. POST (2) - 2"x6 1/2"
6	3" SQ. POST (2) - 2"x6 1/2"
7	3" SQ. POST (2) - 2"x6 1/2"
8	3" SQ. POST (2) - 2"x6 1/2"
9	3" SQ. POST (2) - 2"x6 1/2"
10	3" SQ. POST (2) - 2"x6 1/2"
11	3" SQ. POST (2) - 2"x6 1/2"
12	3" SQ. POST (2) - 2"x6 1/2"
13	3" SQ. POST (2) - 2"x6 1/2"
14	3" SQ. POST (2) - 2"x6 1/2"
15	3" SQ. POST (2) - 2"x6 1/2"
16	3" SQ. POST (2) - 2"x6 1/2"
17	3" SQ. POST (2) - 2"x6 1/2"
18	3" SQ. POST (2) - 2"x6 1/2"
19	3" SQ. POST (2) - 2"x6 1/2"
20	3" SQ. POST (2) - 2"x6 1/2"
21	3" SQ. POST (2) - 2"x6 1/2"
22	3" SQ. POST (2) - 2"x6 1/2"
23	3" SQ. POST (2) - 2"x6 1/2"
24	3" SQ. POST (2) - 2"x6 1/2"

**FASTENER / ANCHOR BOLT CONNECTION**

TABLE C

PROJECTION	RAFTER SIZE	POST SPACING	RAFTER TO BEAM CONNECTION		RAFTER TO POST CONNECTION		BEAM TO POST CONNECTION	
			WIND SPEED - 70 MPH	WIND SPEED - 90 MPH	WIND SPEED - 70 MPH	WIND SPEED - 90 MPH	WIND SPEED - 70 MPH	WIND SPEED - 90 MPH
8'-0"	2x6x0.24	7'-3"	2	2	2	2	2	2
9'-0"	2x6x0.24	8'-0"	2	2	2	2	2	2
10'-0"	2x6x0.24	8'-8"	2	2	2	2	2	2
11'-0"	2x6x0.24	9'-4"	2	2	2	2	2	2
12'-0"	2x6x0.24	9'-9"	2	2	2	2	2	2
13'-0"	2x6x0.24	10'-4"	2	2	2	2	2	2
14'-0"	2x6x0.24	10'-9"	2	2	2	2	2	2
15'-0"	2x6x0.24	11'-3"	2	2	2	2	2	2
16'-0"	2x6x0.24	11'-9"	2	2	2	2	2	2
17'-0"	2x6x0.24	12'-4"	2	2	2	2	2	2
18'-0"	2x6x0.24	12'-9"	2	2	2	2	2	2
19'-0"	2x6x0.24	13'-4"	2	2	2	2	2	2
20'-0"	2x6x0.24	13'-9"	2	2	2	2	2	2
21'-0"	2x6x0.24	14'-4"	2	2	2	2	2	2
22'-0"	2x6x0.24	14'-9"	2	2	2	2	2	2
23'-0"	2x6x0.24	15'-4"	2	2	2	2	2	2
24'-0"	2x6x0.24	15'-9"	2	2	2	2	2	2

**FOX ENGINEERING**  
JAMES M. FOX, STRUCTURAL ENGINEER

1888 TELEGRAPH RD. DORNEY, CALIFORNIA 90230

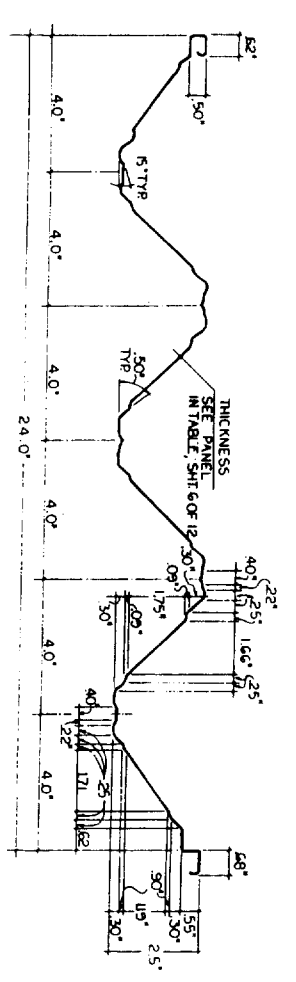
5/12/22  
NOTED  
K.K.

**ATTACHED LATTICE-TYPE PATIO COVER W/24" MAX. OH. L.L. 0, 20 & 30 PSF WIND SPEED - 70 & 90 MPH**

**ALUMINUM LATTICE PATIO COVER**  
VALLEY ALUMINUM COMPANY  
3902 W. LINCOLN ST. #5009  
SAN ANTONIO, TEXAS 78227  
802-278-6224

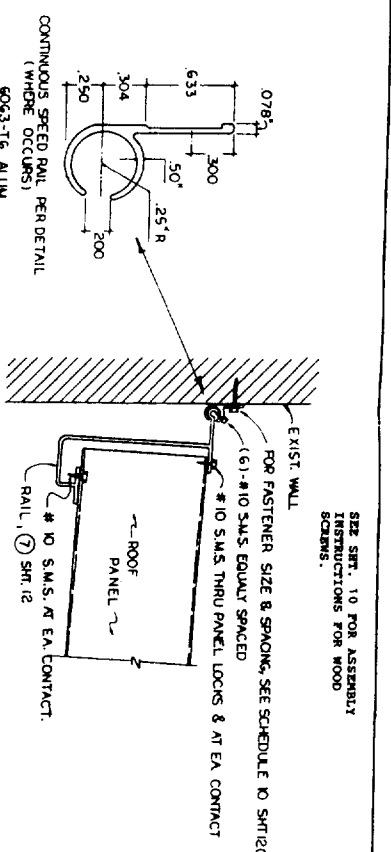
1 OF 12



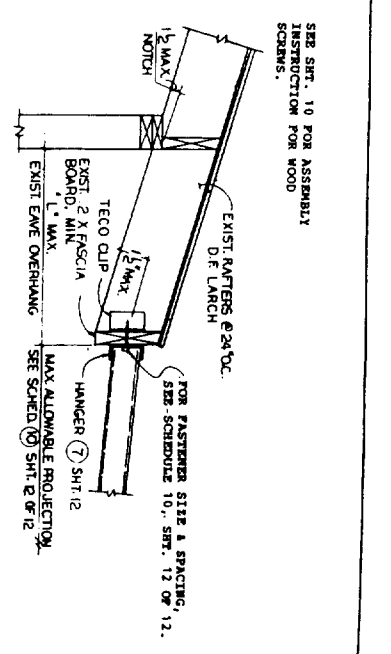


MATERIAL: 3004-H-36 ALUMINUM

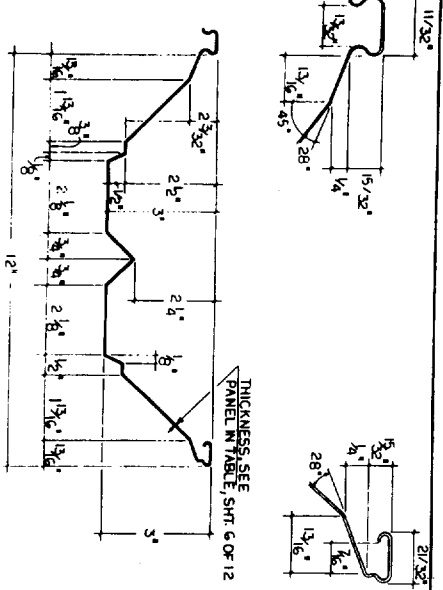
24" ROOF PANEL



1" J" RAIL ATTACHMENT

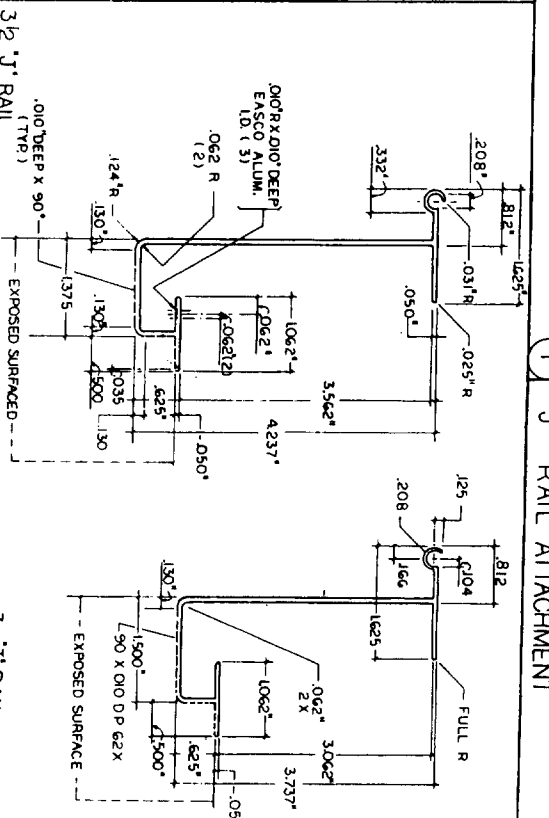


5" EXISTING EAVE ATTACHMENT

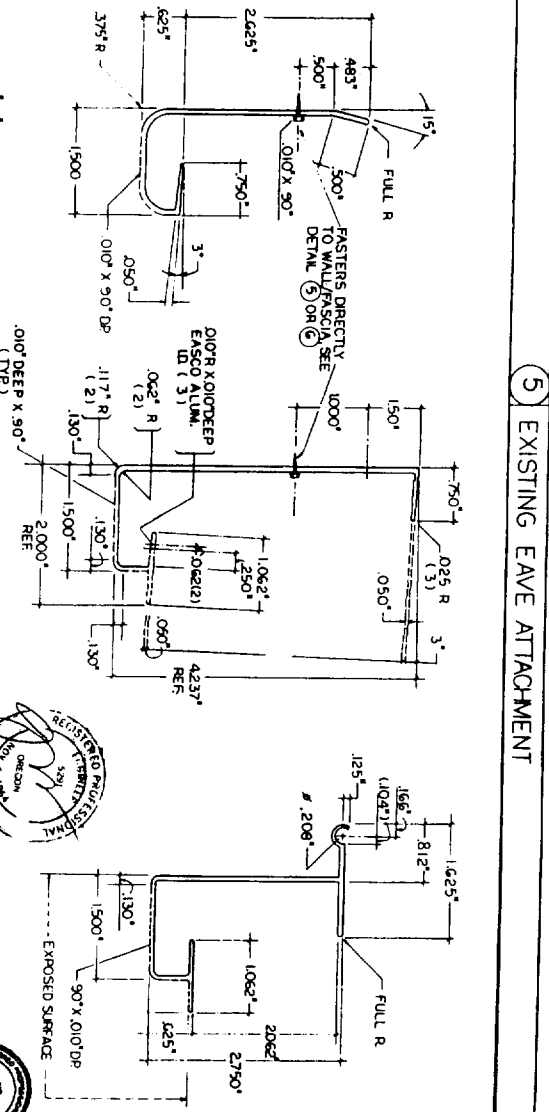


MATERIAL: 3004-H-36 ALUMINUM

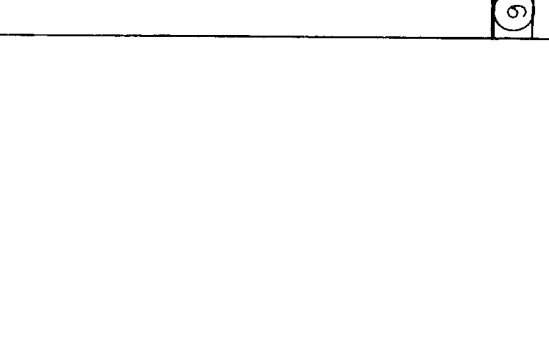
12" X 3" W PANEL



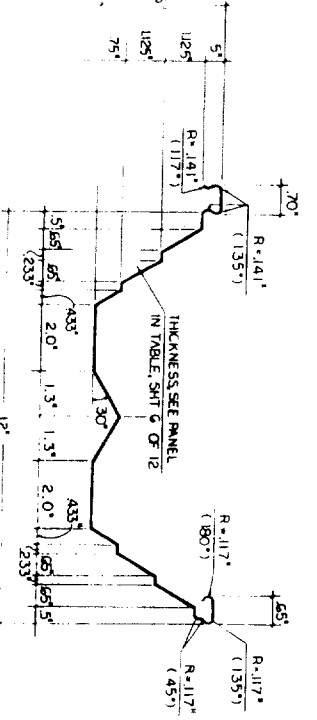
3" J" RAIL HANGER & RAIL PROFILES



3" C" HANGER ALUMINUM ALLOY 6063-T6

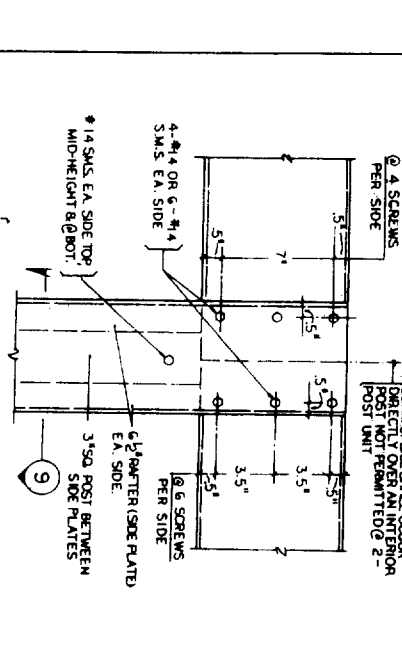


2" J" RAIL

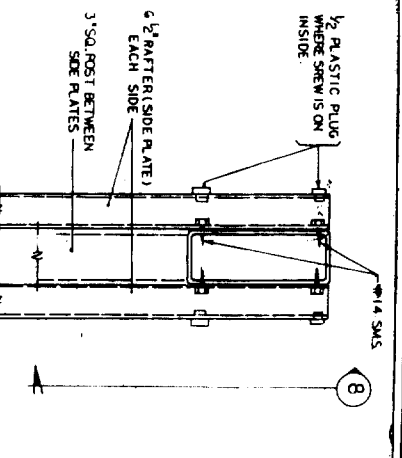


MATERIAL: 3004-H-36 ALUMINUM

12" X 3 1/2" W PANEL

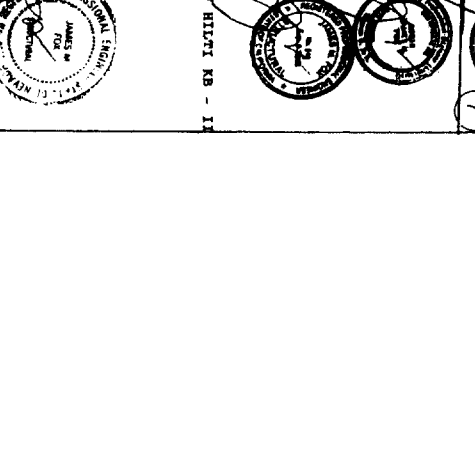


8" BEAM / HEADER TO POST CONN.

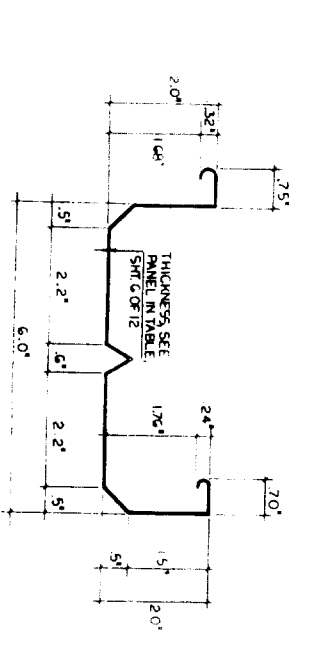


8" BEAM / HEADER TO POST CONN.

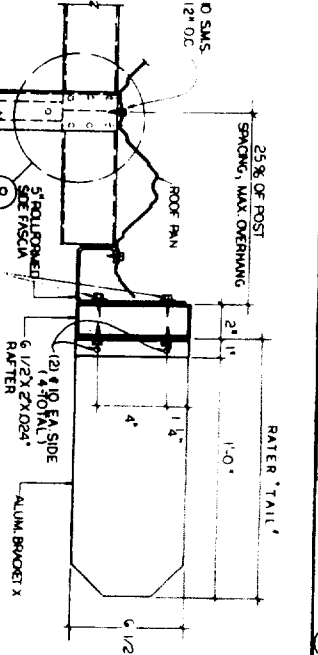
EXISTING RAILER	EXISTING EAVE	ALLOWABLE DECK SPAN
2" X 4" FULL OR NOTCHED	1" x 2" OVERHANG	14'-5"
2" X 6" FULL OR NOTCHED	2" x 0" OVERHANG	8'-5"
2" X 8" FULL OR NOTCHED	2" x 0" OVERHANG	8'-9"
2" X 8" FULL OR NOTCHED	2" x 0" OVERHANG	17'-5"
2" X 8" FULL OR NOTCHED	2" x 0" OVERHANG	17'-5"
2" X 8" FULL OR NOTCHED	2" x 0" OVERHANG	23'-1"



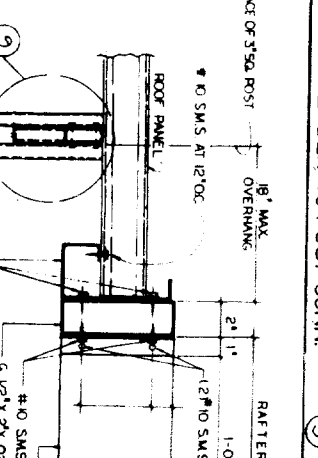
10" BEAM / HEADER TO POST CONN.



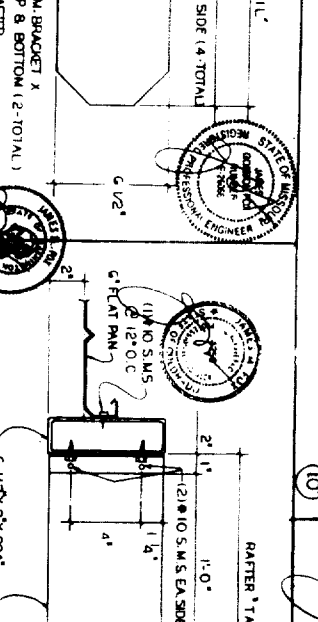
6" X 2" FLAT PANEL



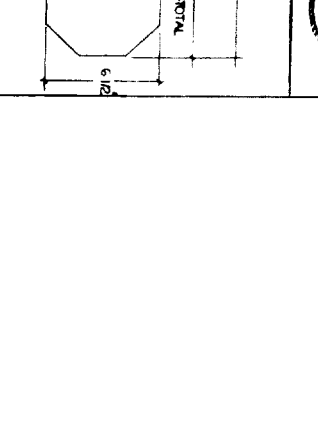
4" RAFTER "TAIL" AT SIDES



11" RAFTER "TAIL" AT FRONT



12" RAFTER "TAIL" W/ 6" X 2" FLAT PANEL



13" RAFTER "TAIL" W/ 6" X 2" FLAT PANEL

ICBDES EVALUATION REPORT NO 5038

7.2.32 10.15.11 K.K. CHANGED SHT. 8 & 12 TO 11 & 13

FOX ENGINEERING JAMES M. FOX, STRUCTURAL ENGINEER 8888 TELEGRAPH RD. DOWNEY, CALIFORNIA 90229

COMPONENTS & DETAIL FOR ROOFED TYPE - PANO COVERS

ALUM-LATITE PATIO COVER VALLEY ALUMINUM COMPANY 1200 S. GARDEN ST. LOS ANGELES, CA 90006

12 OF 12