

CITY OF SACRAMENTO

Permit No: 9809071

1231 I Street, Sacramento, CA 95814

Insp Area: 2

Site Address: 63 RAMBLEOAK CR SAC

Sub-Type: NOTHR

Parcel No: 0310520046

Housing (Y/N): N

CONTRACTOR

PETKUS BROS.
3068 SUNRISE BL
RANCHO CORDOVA, CA

OWNER

ODA GEORGE Y
63 RAMBLEOAK CR
SACRAMENTO CA

ARCHITECT

95831

Nature of Work: LATTICE 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.

License Class B License Number 670242 Date 4-30-99 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.

Date 9-15-98 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.

X 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 713-U-502

(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 9-15-98 Applicant Signature [Signature] SEP 15 1998

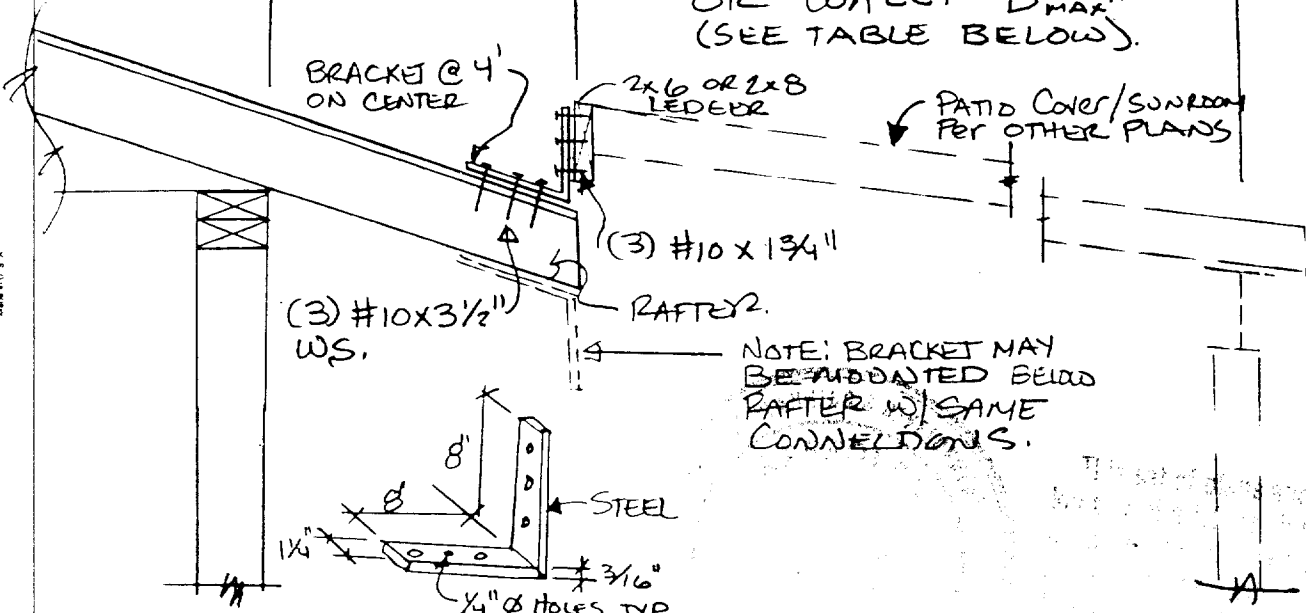
WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S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

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

ISSUED

SEP 15 1998

EAVE LENGTH TO MAX. DIST. TO FIRST PATIO
 COVER SUPPORT BEAM OR WALL, "D_{max}"
 (SEE TABLE BELOW).



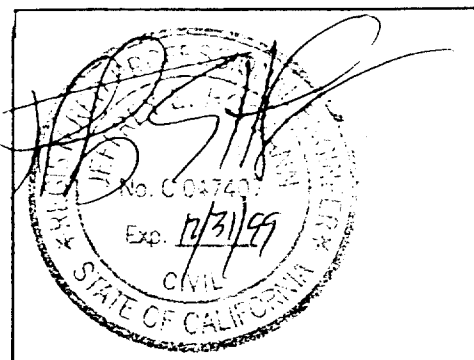
NOTE: BRACKET MAY BE WELDED BELLOW RAFTER W/ SAME CONNECTIONS.

TYPICAL BRACKET
 N.T.S.
 "L" "D_{max}"

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 OF PATIO COVER PLAN

NOTE: THIS DETAIL IS INTEND FOR USE WITH PATIO COVERS/SUNROOMS THAT ARE USED Per 1994 UBC, APPX 31, DIV III



NO COVER SHEET.
 STANDARD DETAIL FOR SUPPORT OF PATIO COVER @ EXISTING 2x4 (MIN) #2DF EAVE

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

PACIFIC CONSULTING ENGINEERS
 2150 BELL AVE., SUITE 145
 SACRAMENTO, CA 95838

30 SHEETS IN EACH SET
 300 SHEETS TOTAL
 100% RECYCLED PAPER
 42,000, 200 LB RECYCLED WHITE 50 LBS
 42,000, 200 LB RECYCLED WHITE 50 LBS
 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 1994 UBC APPENDIX 31 DIV. III

LOADS

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

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

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

$$M_{ALL} = \frac{3,000\text{ in}^3 (875)(1.5)(1.25)}{12} = 418$$

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

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

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

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

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

USE P_{MAX} FROM 3 CASES

FIND MAX TRIB WIDTH FROM COVER

TO COVER

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

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

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

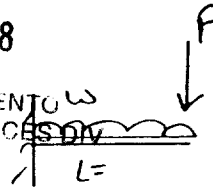
PACIFIC CONSULTING ENGINEERS
 2180 BELL AVE., SUITE 145
 SACRAMENTO, CA 95833

SEE COMPUTER PRINT OUT NEXT PAGE

ISSUED

SEP 15 1998

CITY OF SACRAMENTO
 DEVELOPMENT SERVICES DIV



13-702 500 SHEETS, FULLER, 5 SQUARE
 42-703 500 SHEETS, FULLER, 5 SQUARE
 42-704 500 SHEETS, FULLER, 5 SQUARE
 42-705 500 SHEETS, FULLER, 5 SQUARE
 42-706 500 SHEETS, FULLER, 5 SQUARE
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 42-798 500 SHEETS, FULLER, 5 SQUARE
 42-799 500 SHEETS, FULLER, 5 SQUARE
 42-800 500 SHEETS, FULLER, 5 SQUARE



JEM

8/20/97

PETKOS BROS

97-704

3/3

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

ISSUED

SEP 15 1998
CITY OF SACRAMENTO
DEVELOPMENT SERVICES DIV

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 (BASIC)	1.25	1.33
V(all)	332.50	442.23
M(all)	334.96	445.50
EI	8575000	

2x6 #2 DF

CONNECTION OF BRACKET TO EAVE RAFTER

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

T_{ALL} (#10 W/S w/ 1 1/2" PORET) = (95#/in) (1.5") = 142#/screw

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

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

CONNECTION OF LEDEER TO BRACKET

V_{MAX} = 389#

V_{ALL} (#10 W/S) = (143#/screw) (1.25) = 178.75#/screw

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

LOSE (3) #10 W.S. FROM BRACKET TO LEDEER



77.34

(Rear)

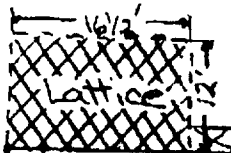
ISSUED

SEP 15 1998

CITY OF SACRAMENTO
DEVELOPMENT SERVICES DIV

103.54

25 1/2'



(E) House

10'

* Roof mount
No posts

ED



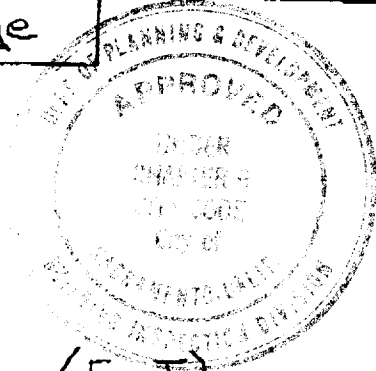
garage

9 1/2'

121.69

6'

28'



This set of plans 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 violation of any City Ordinance or State Law.

(Front)

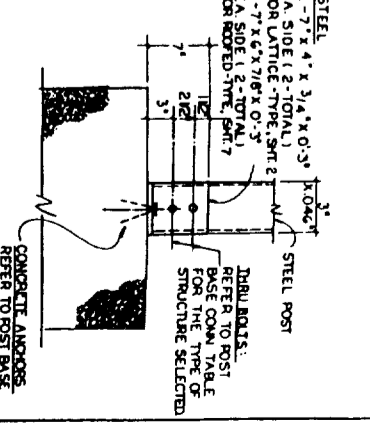
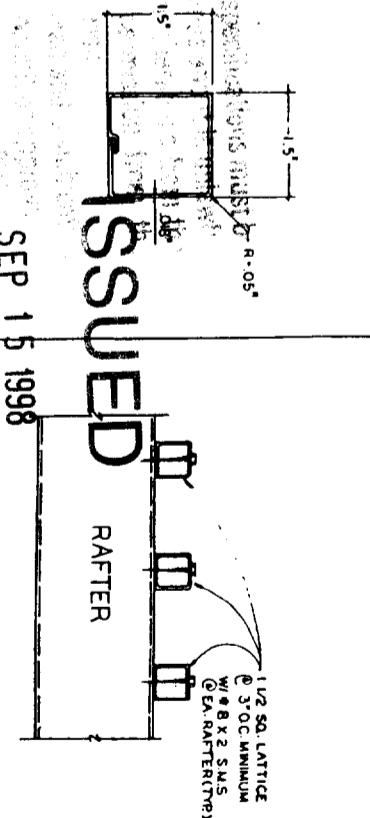
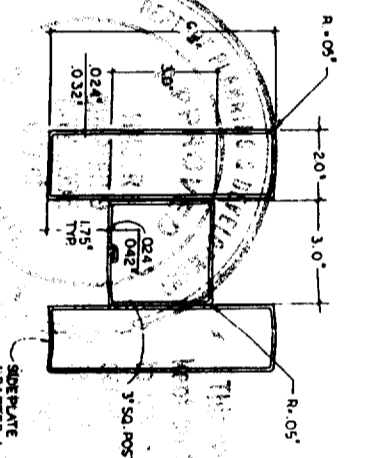
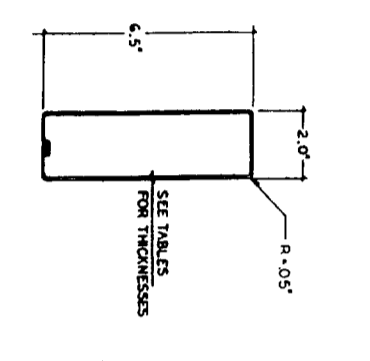
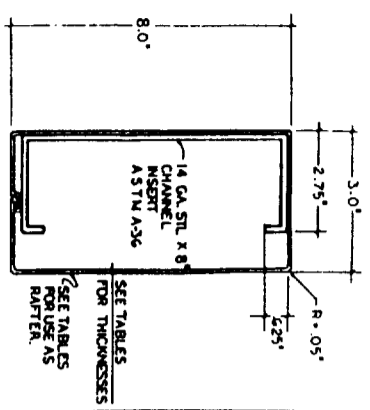
48'

George Oda

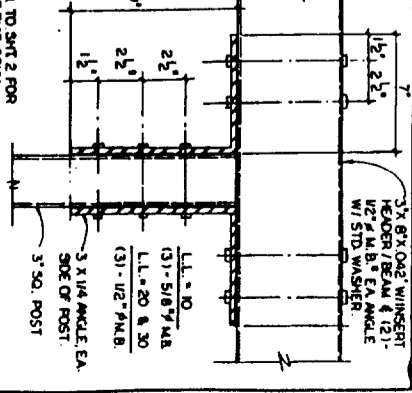
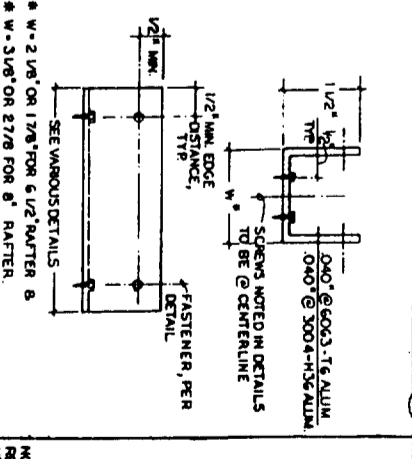
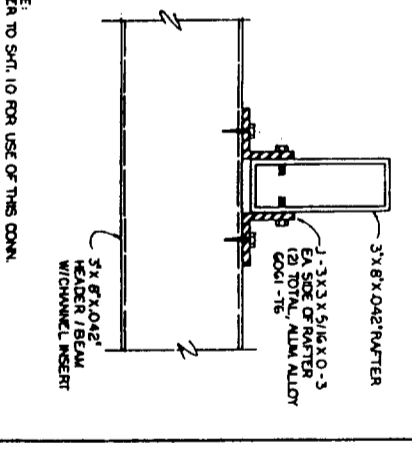
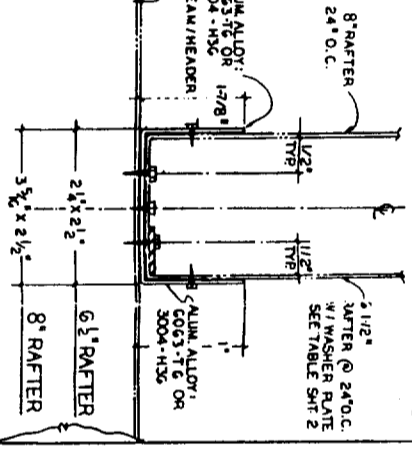
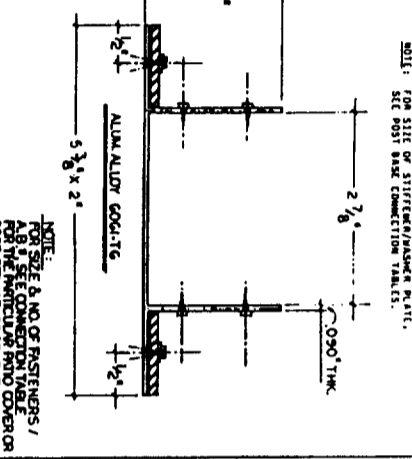
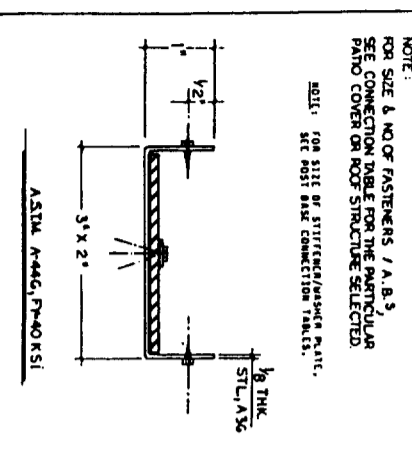
63 Ramble Oak Circle

Sac

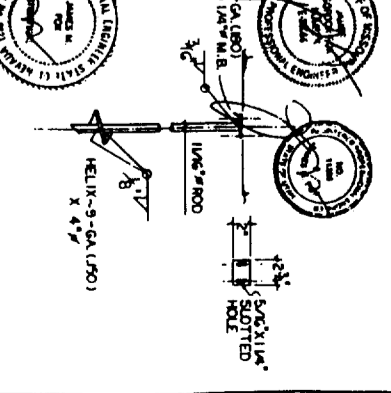
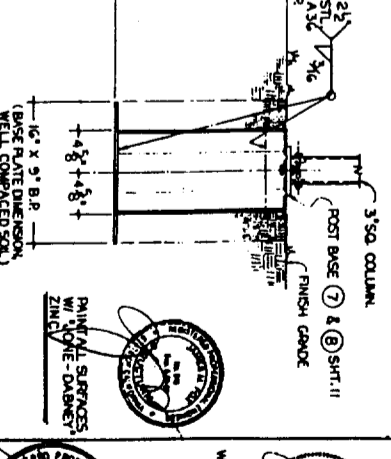
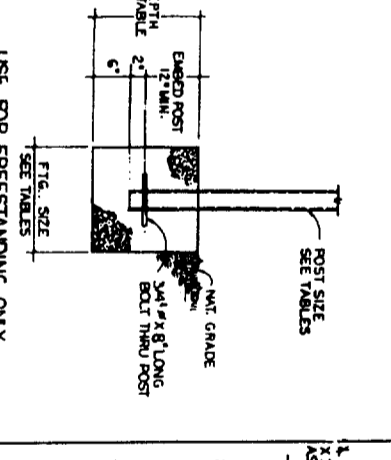
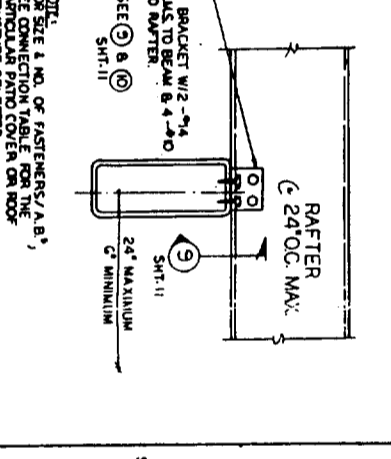
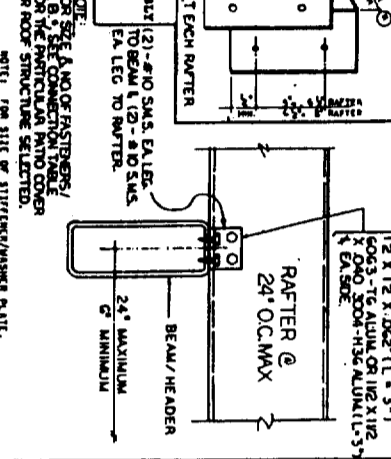
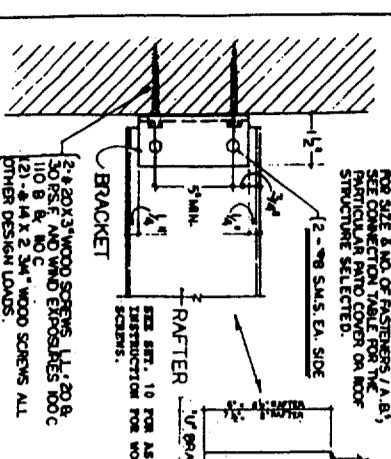
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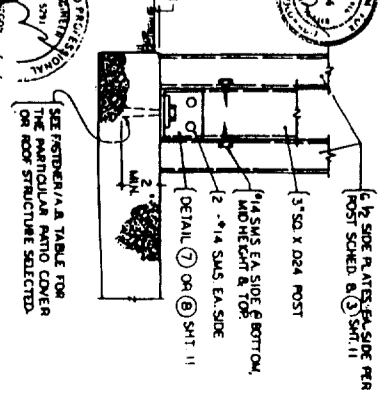
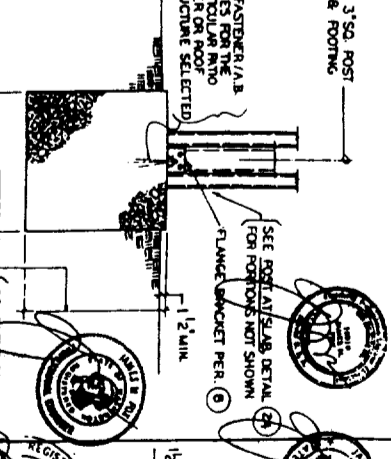
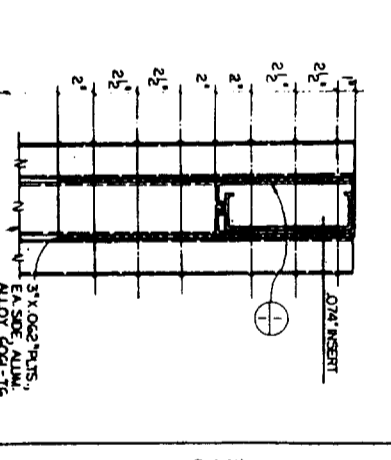
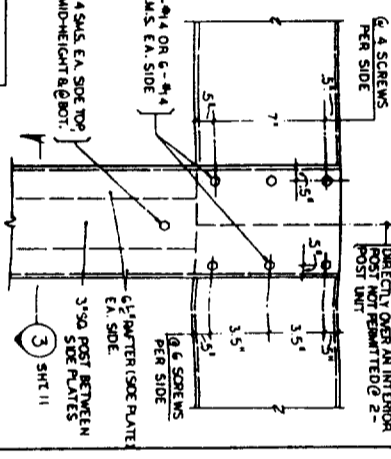
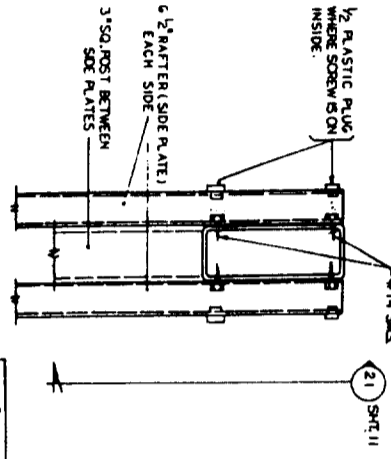
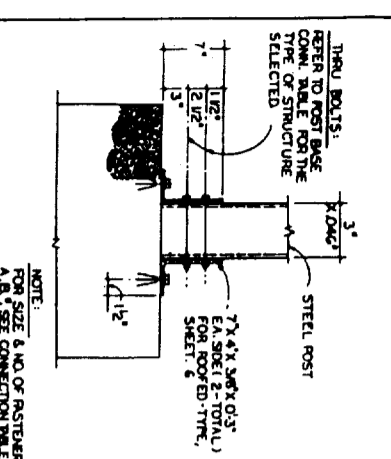
BEAM / HEADER W/CHANNEL INSERT (1) RAFTER (2) POST W/ SIDE PLATES (3) 1 1/2" SQ. LATTICE (4) DBL. ANGLE POST BASE CONN.



POST BASE BRACKET / STEEL (7) POST BASE FLANGE BRACKET / ALUM. (8) BRACKET / RAFTER / TO BAHDR. (9) ANGLE CONN @ RAFTER/HEADER BEAM (10) 'U' BRACKET - GENERAL (11) DBL. ANGLE CONN @ HEADR/POST



WALL CONNECTION (13) RAFTER TO BEAM/HEADER CONN. (14) RAFTER TO BEAM / HEADER CONN. (15) EMBEDDED POST (16) POST TO SAFETY STAKE (17) POST TO ABSOOL ANCHOR



POST TO SLAB CONN. (24) POST TO FOOTING CONN. (23) POST TO SLAB CONN.

POST BASE FLANGE BRACKET/ALUM. (9) BEAM / HEADER TO POST CONN. (20) BEAM / HEADER TO POST CONN. (21) BEAM/HEADER TO POST CONN. (22) POST TO FOOTING CONN. (23) POST TO SLAB CONN. (24)

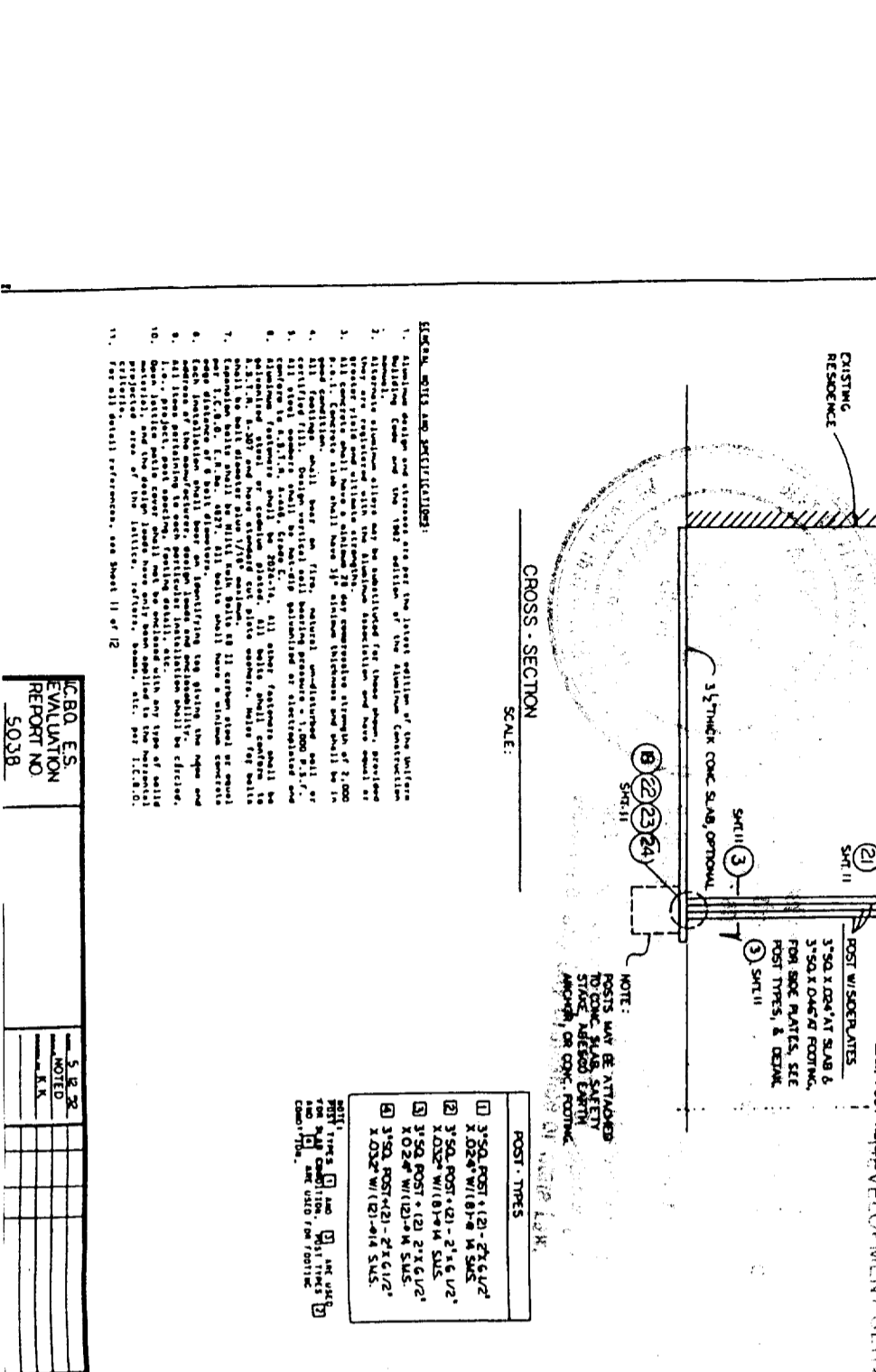
FOX ENGINEERING
JAMES M. FOX, STRUCTURAL ENGINEER
1001 YERGEN RD. ROBERT, CALIFORNIA 92308
ALUM-LATTICE PATIO COVER
WALLEY ALUMINUM COMPANY
800/279-6234
11 of 12

ISSUED
SEP 15 1998
CITY OF SACRAMENTO
DEVELOPMENT DIVISION
BETWEEN RAFTER CONN.

ATTACHED LATTICE PATIO COVERS (WIND SPEED = 70 & 90 MPH) TABLE A

PROJECTION INCLUDES 24" MAXIMUM OVERHANG	RAFTER SIZE	MAXIMUM POST SPACING & FOOTING SIZE				WIND = 0/15 PSF	WIND = 70/80 MPH				BEAM/HEADER POST CONNECTION					
		3" x 8" x .042"	POST SPACING	POST SIZE	MINIMUM NUMBER OF POSTS		3" x 8" x .042" x CHANNEL	POST SPACING	POST SIZE	MINIMUM NUMBER OF POSTS						
10'-0"	2x6x10.24'	13'-5"	13'-5"	19	2	1	2	3	4	1	2	3	4	70 MPH	90 MPH	8
11'-0"	2x6x10.24'	12'-10"	12'-0"	19	2	2	2	2	2	10'-0"	30'-11"	24	28	2	2	8
12'-0"	2x6x10.24'	12'-6"	12'-6"	19	2	2	2	2	2	10'-1"	29'-9"	25	29	2	2	8
13'-0"	2x6x10.24'	12'-1"	12'-1"	19	2	2	2	2	2	8'-10"	28'-1"	25	29	2	2	8
14'-0"	2x6x10.24'	11'-9"	11'-9"	20	2	2	2	2	2	8'-4"	27'-7"	26	30	2	2	8
15'-0"	2x6x10.24'	11'-4"	11'-4"	20	2	2	2	2	2	7'-10"	26'-8"	26	30	2	2	8
16'-0"	2x6x10.24'	11'-0"	11'-1"	20	2	2	2	2	2	7'-5"	25'-10"	26	30	2	2	8
17'-0"	2x6x10.24'	10'-5"	10'-0"	20	2	2	2	2	2	7'-0"	25'-3"	26	30	2	2	8
18'-0"	2x6x10.24'	9'-10"	10'-6"	20	2	2	2	2	2	6'-8"	24'-7"	27	30	2	2	8
19'-0"	2x6x10.24'	9'-5"	10'-4"	20	2	2	2	2	2	6'-5"	24'-2"	27	31	2	2	8
20'-0"	2x6x10.24'	9'-0"	10'-1"	20	2	2	2	2	2	6'-1"	23'-7"	27	31	2	2	8

PROJECTION THICKNESS & SPACING	TABLE B RAFTER				TABLE C FASTENER / ANCHOR BOLT CONNECTION			
	18" O.C.	20" O.C.	22" O.C.	DETAIL	RAFTER TO BEAM CONNECTION	RAFTER TO BEAM CONNECTION	BEAM TO POST CONNECTION	BEAM TO POST CONNECTION
8'-0"	0.24	0.24	0.24	(13)	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH
9'-0"	0.24	0.24	0.24	(14)	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH
10'-0"	0.24	0.24	0.24	(15)	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH
11'-0"	0.24	0.24	0.24	(16)	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH
12'-0"	0.24	0.24	0.32	(17)	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH
13'-0"	0.32	0.32	0.32	(18)	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH
14'-0"	0.32	0.32	0.32	(19)	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH
15'-0"	0.32	0.32	0.40	(20)	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH
16'-0"	0.32	0.40	0.40	(21)	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH	WIND SPEED = 70 MPH	WIND SPEED = 90 MPH



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

NOTE: 1/2" THICK LATTICE-TYPE STRUCTURE MAY BE USED.

NOTE: POSTS MAY BE ATTACHED TO CONCRETE SLAB SAFELY APPROX. 1" FROM FACE OF SLAB.

NOTE: POSTS SHALL BE DEVELOPED TO MATCH THE WALL.

NOTE: POSTS SHALL BE ATTACHED TO THE WALL WITH ANCHOR BOLTS.

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FOX ENGINEERING

JAMES M. FOX, STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER

1602 J STREET, SACRAMENTO, CALIFORNIA 95811

TEL: (916) 442-1234

FAX: (916) 442-1235

ATTACHED LATTICE-TYPE PATIO COVER W/ 24" MAX OH

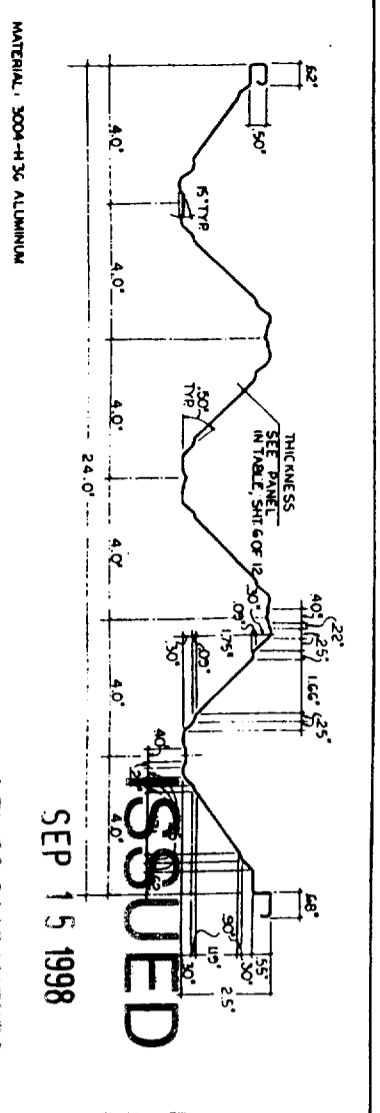
WIND SPEED = 70 & 90 MPH

VALLEY ALUMINUM COMPANY

6023 27th - 4224

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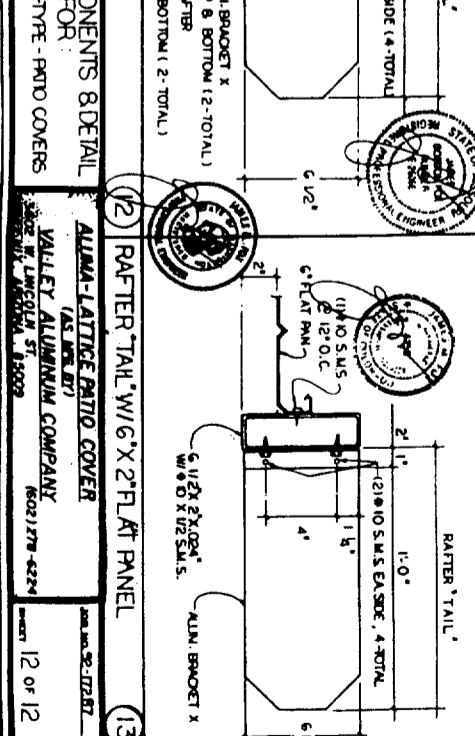
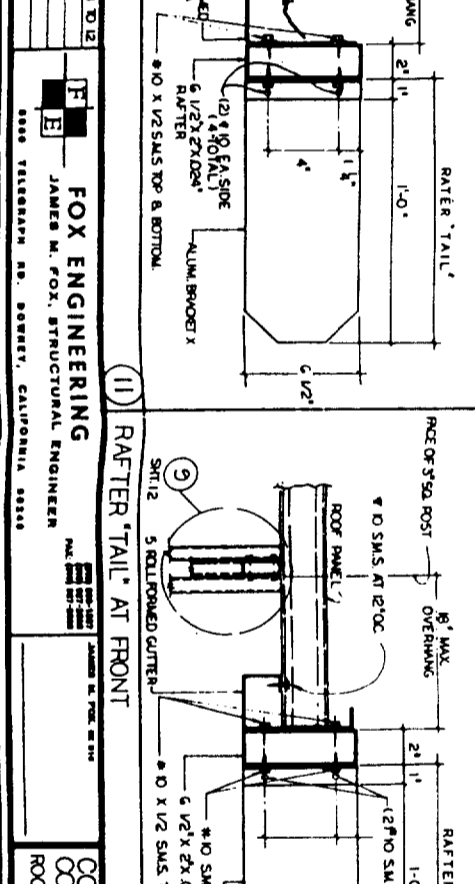
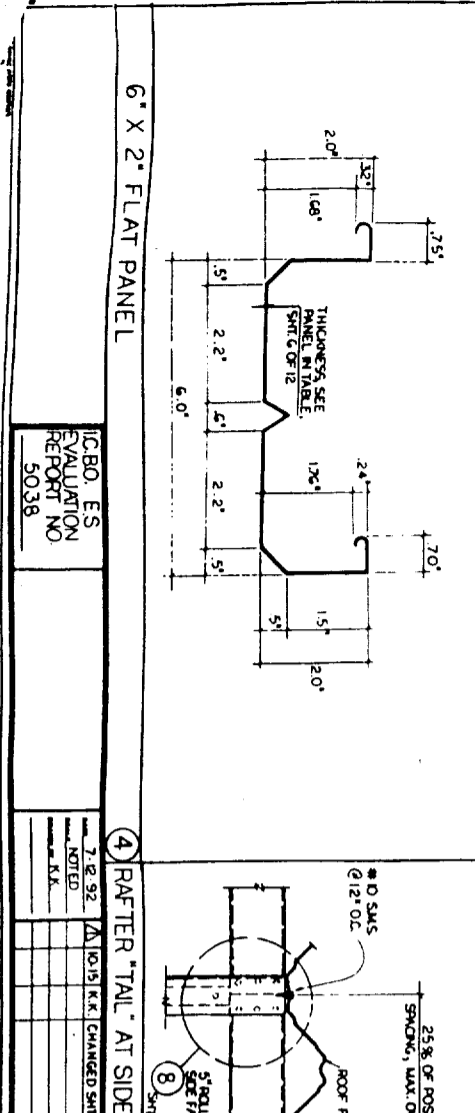
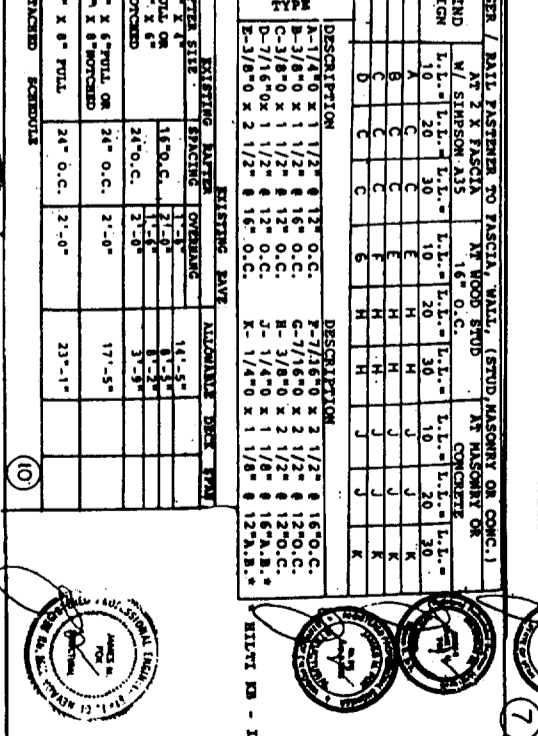
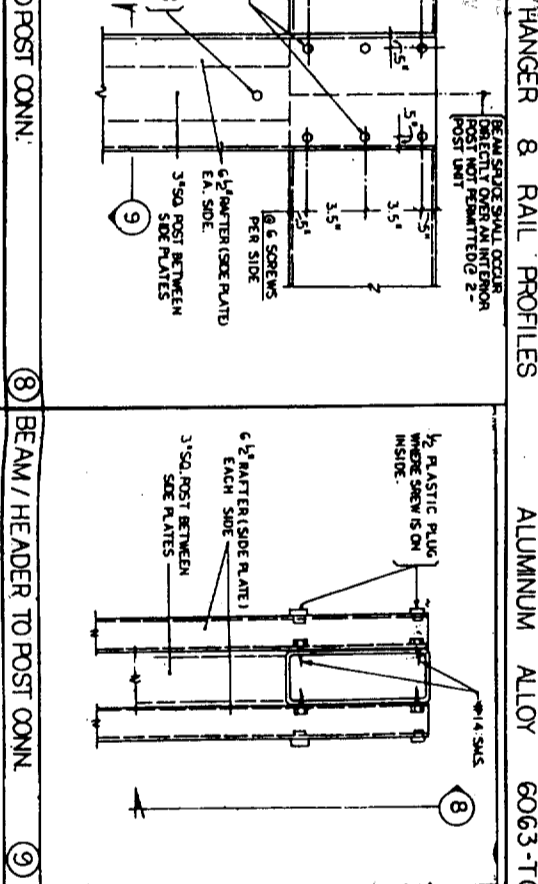
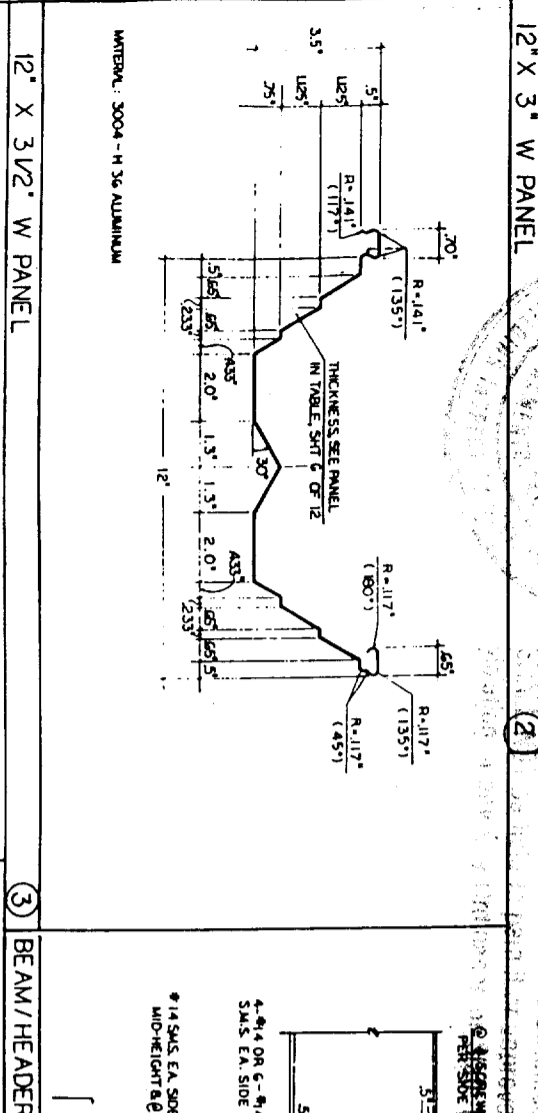
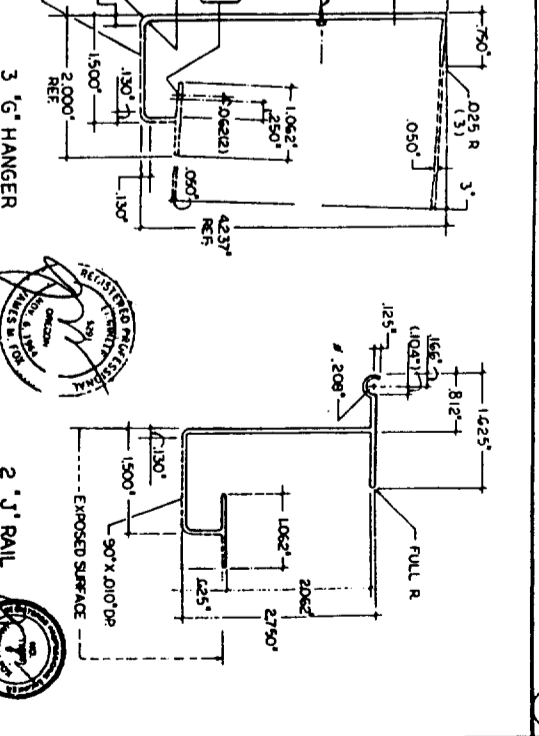
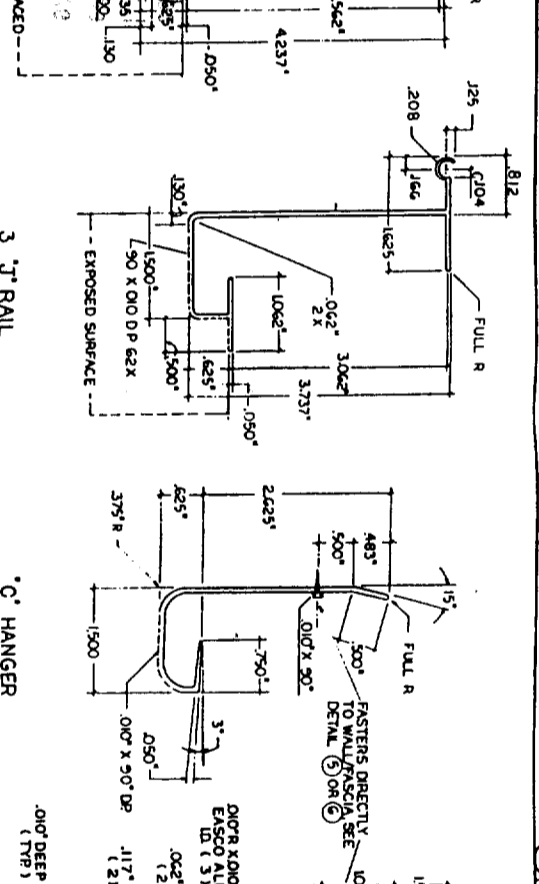
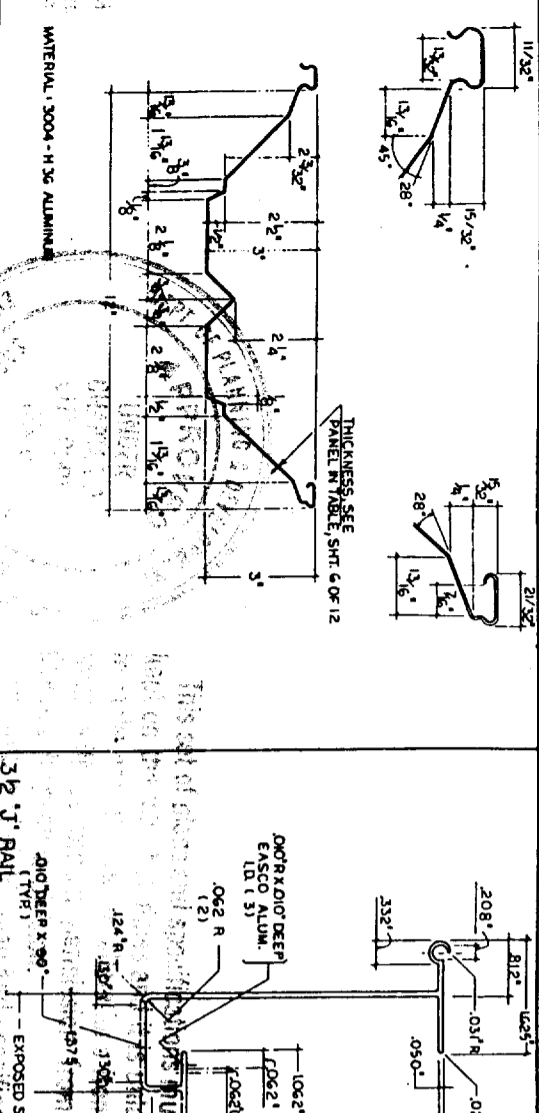
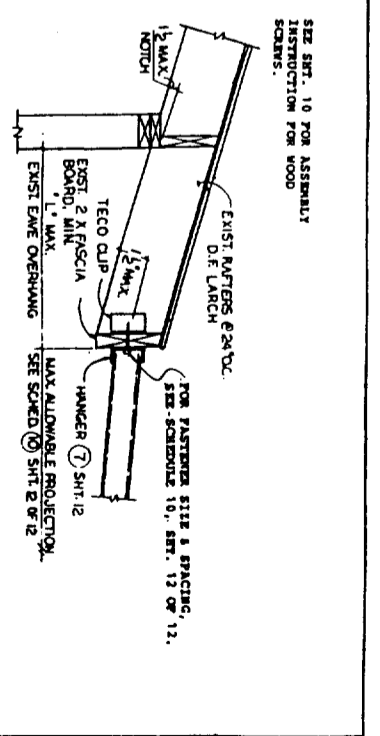
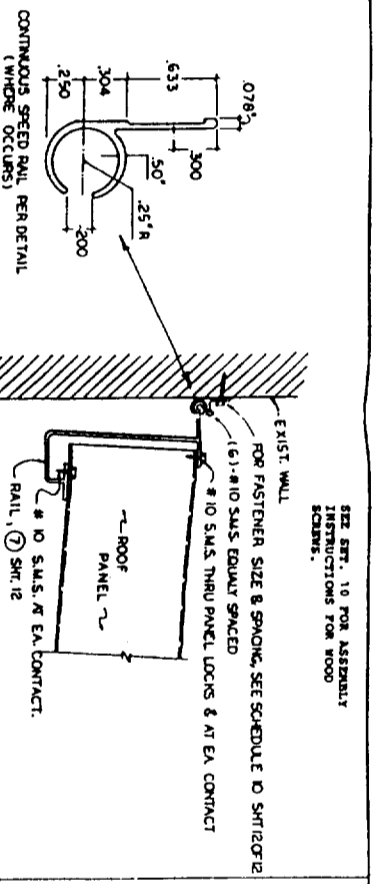
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CITY OF SACRAMENTO
DEVELOPMENT SERVICES DIVISION

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5 EXISTING EAVE ATTACHMENT

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ICBO E.S. EVALUATION REPORT NO 5038	7-9-92 NOTED K.K.	7-9-92 K.K. CHANGED SMT. 8 & 12	FOX ENGINEERING JAMES M. FOX, STRUCTURAL ENGINEER 8888 TELEGRAPH RD., SUITE 200, SACRAMENTO, CALIFORNIA 95833	COMPONENTS & DETAIL CONN FOR: ROOF TYPE - PMD COVERS	ALUM-LATITE PATO COVER (AS PER 87) VALLEY ALUMINUM COMPANY 10000 W. LAMAR BLVD., SUITE 1500, SACRAMENTO, CA 95833 800.277.4274	DATE: 09-17-97 SHEET: 12 OF 12
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