CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0006334
Insp Area: 1

Site Address: 908 15TH ST SAC
Parcel No: 006-0056-006

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

CONTRACTOR
BLUE PACIFIC AWNING
4756 BAMBI LN
PLACERVILLE CA

OWNER
CULPEPPER HELEN M
847 COMMONS DR
SACRAMENTO CA 95825

ARCHITECT

Nature of Work: 3 NEW AWNINGS

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_____ License Number_____ Date_____ Contractor 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, orrepair 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).

PAID
CITY OF SACRAMENTO
JUN 26 2000
NEIGHBORHOODS, PLANNING AND DEVELOPMENT SERVICES

_____ I am exempt under Sec._____ B & PC for this reason:_____

Date June 26, 2000 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 June 26 2000 Applicant/Agent 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, forthe 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 Exempt. Policy Number Exp Date

X (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 June 26 2000 Applicant 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.

APPLICATION FOR COMMERCIAL BUILDING PERMIT

CITY OF SACRAMENTO
DEVELOPMENT SERVICES DIVISION
PERMIT SERVICES SECTION
1231 I Street, Rm. 200
Sacramento, CA 95814 (916) 264-7619 FAX 264-7046

ACTIVITY #	Insp. Area
0006334	1C

Applicant MUST complete ALL Unshaded areas

ADDRESS 108, 110, 112 15TH STREET **Suite** _____
PARCEL # 006-0076-001

CONTACT	LICENSED CONTRACTOR Lic No. #
Name Bill Kufasimes	Name Blue Pacific Awning Company
Street Address 542 35th St.	Address 4756 Bambi Lane
City/State/Zip Sacramento CA 95816	City/State/Zip Placerville CA 95667
Phone (916) 614-7580 FAX 614-8797	Phone 530-676-8411 FAX
E-mail:	E-mail:

ARCHITECT/ENGINEER	OWNER
Name Blue Pacific Awning Company	Name Bill Kufasimes
Address 4756 Bambi Lane	Address
City/State/Zip Placerville CA 95667	City/State/Zip
Phone 530 676 8411 FAX	Phone FAX
E-mail:	E-mail:

→ Will permittee have any employees on the jobsite? ☐ No ☐ Yes → **INSURANCE CO:** _____

→ **WORKER'S COMPENSATION POLICY #** _____ **EXPIRATION DATE:** _____

NATURE OF WORK IN DETAIL: FIRE RETARDANT AWNING IN FRONT OF EACH ALREADY PRESENT BAY EACH

OCCUPANT/TENANT: DOWNTOWN CHIROPRACTIC **VALUATION: $** 1600

FLOOD STATUS:						S.C.A.T.					
JOB DESCRIPTION	BLDG	SHELL	APT	TI( )	REM( )	SW	FIRE	ADD	OTH		
INSPECTION DISCIPLINES			BLDG	MECH	PLUMB	ELEC		SITE	FIRE		
# Stories	1st flrArea.	Total Area	Use Zone	Occp Group	Const type	Fire Req. Y / N		Fed Code	Vio. File [H] [Quad]		
						SPR	ALARM				
B	L	P	M	E	F	S		D	PW	UTIL	
13 ft	13 ft				DBSF						

COMMENTS: _____

REGIONAL SANITATION FEES? ☐ Yes ☒ No **HEALTH DEPARTMENT?** ☐ Yes ☒ No

WATER FLOW TEST FOR NEW BUILDINGS OR ADDITIONS? ☐ Provided ☐ Faxed

Date of Request:_____
By:_____

CITY OF SACRAMENTO DEVELOPMENT SERVICES DIVISION
PLANNING AND ZONING INFORMATION REQUEST

Project Address: 908 15th ST

Assessor's Parcel Number: 006 - 0056 - 006

Previous Use: Commercial

Description of Request/Proposed Use: Awning

Is This a Change of Use? No

Zoning Designation: C3

Prior Applications for Project Site(P#, Z#, DRPB#):_____

Comments:_____

Needs an encroachment permit.

Are There Any Planning Issues?: (circle one) YES NO

* Staff Site Plan Check Required? (Circle one)	YES	NO
* Field Inspection Required? (Circle one)	YES	NO
* Design Review/Preservation Required?: (Circle one)	YES	NO

Elec. has reviewed & approved

Planning Review by/Date [signature] 6-9-06

A list of items that must be reviewed by Planning is provided on the reverse side of this form.

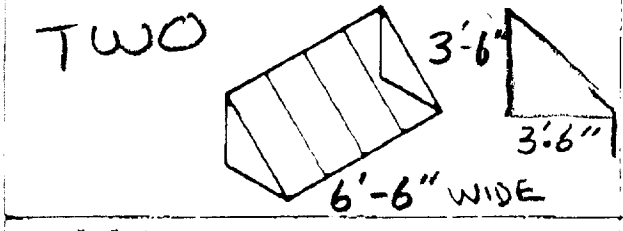
MICROFILM AFTER FINAL

- Bill Kofasimes - 530-676-8442

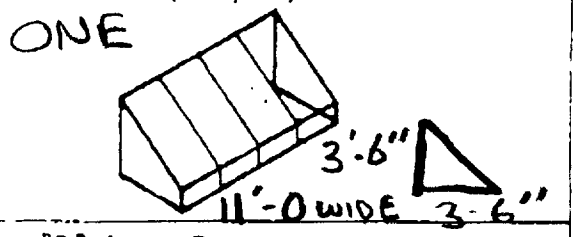
GOODWIN ~ COLE CO.
SINCE 1888

Firesist

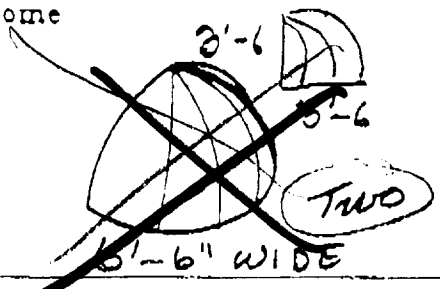
type"A" Standard Window Awning(SWA)



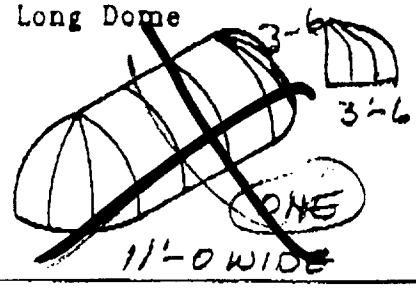
type"B" Standard Window Awning with solid Valance(SWA/SV)



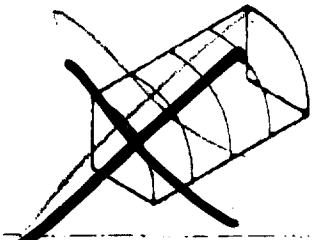
type"C" Dome



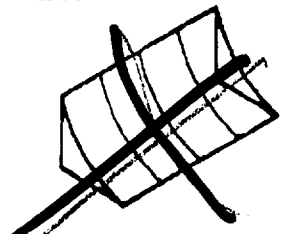
type"D" Long Dome



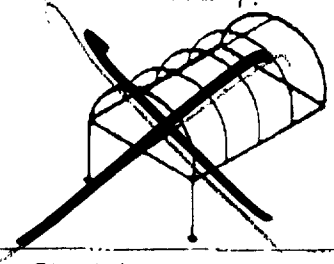
type"E" Convex



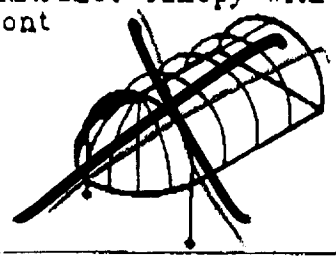
type"F" Concave



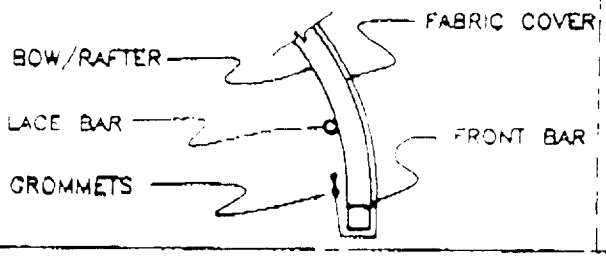
type"G" Entrance Canopy



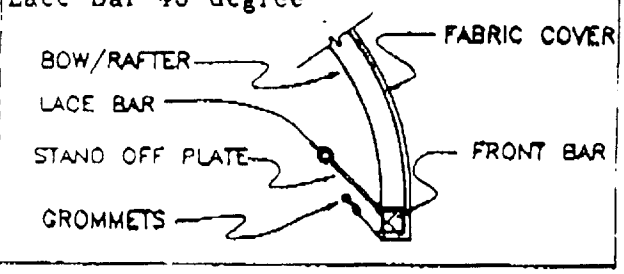
type"G"Entrance Canopy with dome front



Lace Bar Straight Up



Lace Bar 45 degree



INDUSTRIAL FABRICATORS
8320 Belvedere Ave., Sacramento, CA 95826
(916) 381-8888

ENGINEERING

8952 NEW DAWN DRIVE
SACRAMENTO, CA 95826

GENE S. PORTER INC. (916) 362-4363 FAX (916) 362-1715

BLUE PACIFIC AWNING COMPANY
4756 BAMBI LANE
PLACERVILLE, CA

SHEET 1 OF 3

JOB NO. 20-046

Sloped Awnings:

Use 1" Sq. Steel Tube, t = 0.65"

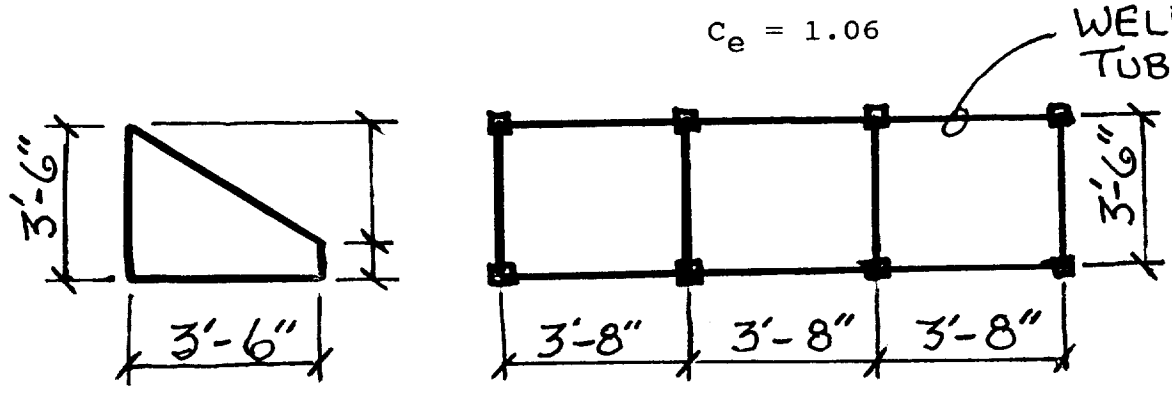
Wind - 80 MPH, Exposure - C * Awning Height is less than 15.0'

$P = C_e \; C_q \; q_s \; I_W$ Where I = 1.00

$P = 1.06 \times 1.4 \times 16.4 \times 1.0 =$ $q_s = 16.4$

P = 24 PSF $C_q = 1.4$

$C_e = 1.06$



Wind = 24#/□'

Use 1" Sq. Steel Tube, t = 0.65"

Wt. 0.83#/', A = 0.243□"

$S = 0.0712^{IN3}$, $I = 0.0356^{IN4}$

Grade-I, $F_Y = 33^{KSi}$, $F_B = 20^{KSi}$

W = 24#/□' x 3.5'/2 = 42#/'

$$S_{Req'd} = \frac{1.5 \times 42 \times 3.67^2}{20{,}000} = 0.042"^3 < 0.071"^3 \text{ OK}$$

Fastened To Existing Concrete Wall:

6/9/2000

REGISTERED PROFESSIONAL ENGINEER GENE S. PORTER No. 15,182 CIVIL STATE OF CALIFORNIA

EXP 3/31/01

ENGINEERING

8952 NEW DAWN DRIVE
SACRAMENTO, CA 95826

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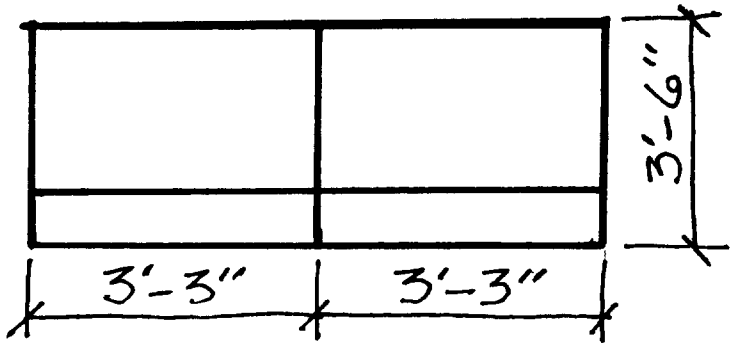
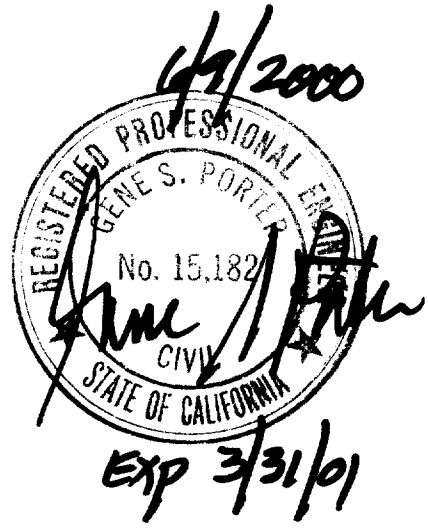
BLUE PACIFIC AWNING COMPANY
4756 BAMBI LANE
PLACERVILLE, CA

SHEET 2 OF 3

JOB NO. 20-046

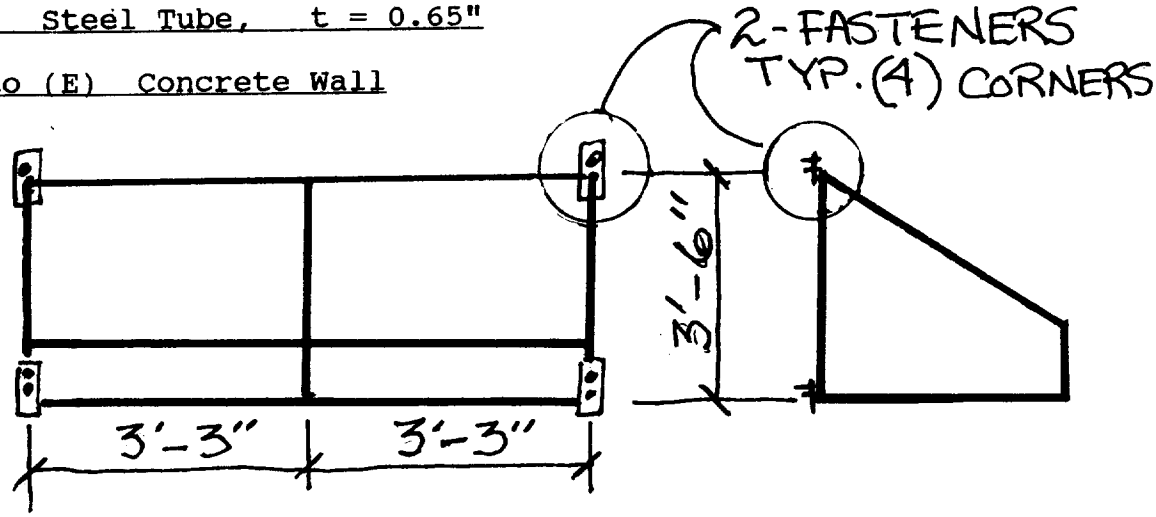
(2) 6' - 6" x 3' - 6" x 3' 6" Awning:





Use 1" Sq. Steel Tube, t = 0.65"

Fastening to (E) Concrete Wall



Fasten to (E) Concrete Wall

Ref: I.C.B.O. No. 1372
f'_c = 2000 PSi

ENGINEERING

8952 NEW DAWN DRIVE
SACRAMENTO, CA 95826

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4756 BAMBI LANE
PLACERVILLE, CA

SHEET 3 OF 3

JOB NO. 20-046

FASTENING FRAME TO CONC. WALL

6/9/2000

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EXP 3/31/01

3/8" Redhead To Wall:

With 1 1/2" Min. Embedment

W/O Spec. Insp.
- Tension = $395^{\#} \times 2 = 790^{\#} > 132^{\#}$
- Shear = $1060^{\#} \times 2 = 2120^{\#} > 132^{\#}$

Wind Load on Fastener

$P_{Wind} = 24^{\#}/\square' \times 5.5. \times 2' = 264^{\#}$

$P_{Wind} = \frac{264^{\#}}{2 \text{ Fasteners}} = 132^{\#}/\text{Fastened}$

Fastening of 3/16" Steel ∠ Bracket To 1" Sq. Steel Tube Frame

Use #10-16 x 5/8" HWH Teks/3 Self Tapping Screw.

FASTENING FRAME-TO WOOD STUD WALL.

TABLE 23-III-U—LAG SCREW DESIGN VALUES (Z) FOR SINGLE SHEAR (Two-member) CONNECTIONS[1,2,3] WITH 1/4-INCH (6.4 mm) ASTM A 36 STEEL SIDE PLATE OR ASTM A 446 GRADE A STEEL SIDE PLATE [For t_s < 1/4 inch (6.4 mm)]—(Continued)

STEEL SIDE PLATE t_s inches	LAG SCREW DIAMETER D inches	G = 0.43 HEM-FIR $Z_{\parallel}$ lbs.	G = 0.43 HEM-FIR $Z_{\perp}$ lbs.	G = 0.42 SPRUCE-PINE-FIR $Z_{\parallel}$ lbs.	G = 0.42 SPRUCE-PINE-FIR $Z_{\perp}$ lbs.	G = 0.37 REDWOOD (open grain) $Z_{\parallel}$ lbs.	G = 0.37 REDWOOD (open grain) $Z_{\perp}$ lbs.	G = 0.36 EASTERN SOFTWOODS SPRUCE-PINE-FIR(S) WESTERN CEDARS WESTERN WOODS $Z_{\parallel}$ lbs.	G = 0.36 EASTERN SOFTWOODS SPRUCE-PINE-FIR(S) WESTERN CEDARS WESTERN WOODS $Z_{\perp}$ lbs.	G = 0.35 NORTHERN SPECIES $Z_{\parallel}$ lbs.	G = 0.35 NORTHERN SPECIES $Z_{\perp}$ lbs.
× 25.4 for mm		× 4.45 for N									
1/4	1/4	280	200	280	190	260	180	260	170	250	170
	5/16	370	250	370	250	350	230	350	230	340	220
	3/8	460	300	450	290	430	270	430	270	420	260
	7/16	580	370	580	430	550	400	540	390	540	390
	1/2	730	440	720	510	680	470	680	460	670	450
	5/8	1,070	610	1,060	710	1,010	650	1,000	640	980	630
	3/4	1,490	820	1,480	950	1,400	870	1,390	850	1,360	830
	7/8	1,990	1,050	1,980	1,470	1,870	1,350	1,850	1,330	1,820	1,300
	1	2,570	1,310	2,550	1,770	2,410	1,640	2,380	1,600	2,340	1,570
	1 1/8	3,230	1,600	3,200	2,120	3,030	1,950	2,990	1,920	2,940	1,880
	1 1/4	3,970	1,910	3,930	2,500	3,720	2,290	3,680	2,240	3,610	2,190

ENGINEERING

8952 NEW DAWN DRIVE
SACRAMENTO, CA 95826

GENE S. PORTER INC. (916) 362-4363 FAX (916) 362-4215

REGISTERED PROFESSIONAL ENGINEER GENE S. PORTER CIVIL STATE OF CALIFORNIA

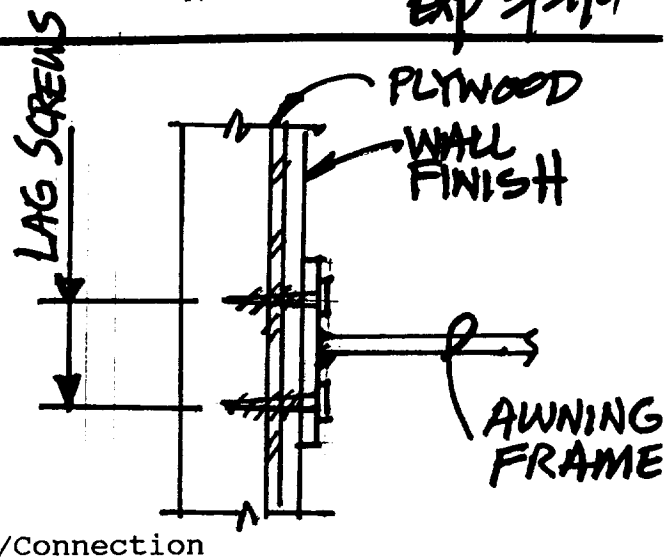
1/8/2000

EXP 3/31/01

BLUE PACIFIC AWNING COMPANY
4756 BAMBI LANE
PLACERVILLE, CA

SHEET 3A OF 3

JOB NO. 20-04



Awning Connection to Wood Stud Wall

$Awning_{(DL}$ = 3 PSF

$P_{DL} = 3^{\#}/\square' \times 3.5' \times 5.5' = 58^{\#}$

$P_{DL} = \frac{58^{\#}}{2 \text{ Connections}} =$

$P_{DL} = \frac{30^{\#}}{\text{Connection}}$

Wind Uplift

$F_{Uplift} = \frac{24^{\#}/\square' \times 3.5' \times 5.5'}{2 \text{ Connections}} = 231^{\#}/\text{Connection}$

$F_{Uplift} = \frac{231^{\#}}{2 \text{ Fasteners}} = 116^{\#}/\text{Fastener}$

Fasten Welded Steel Awning Frame to Existing Wood Framed Wall
Lag Screws

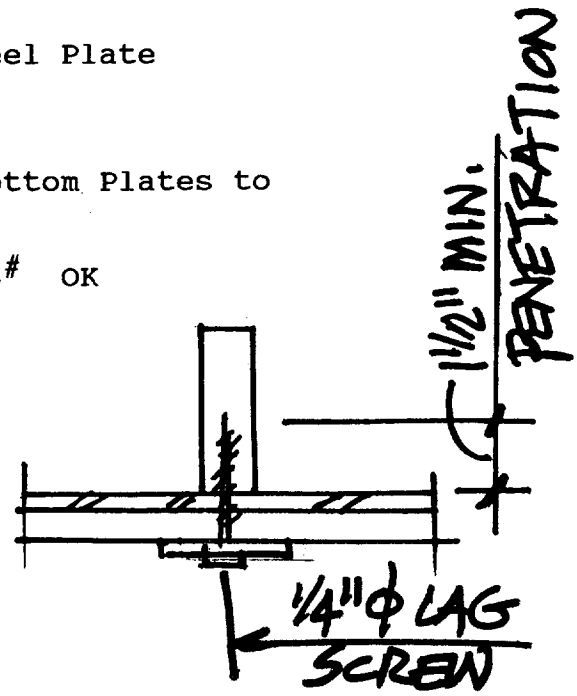
Re: Table 23-III-U
Lag Screw Single Shear With 1/4" Steel Plate

G = 0.43, Z (⊥) = 200#

1/4" x 3 1/2" Long Lag Screws at Top & Bottom Plates to Fasten Welded Steel Awning Frame to Wall.

Capacity (Single Shear) = $200^{\#}$/Lag Screw > $116^{\#}$ OK

F.S. = $\frac{200^{\#}}{116}$ = 1.73 > 1.50 OK



MIN. LENGTH OF LAG SCREW

WALL FINISH .... 1"
PLYWOOD .... 3/8"
MIN. PENETRATION ... 1 1/2"

TOTAL LG = 2 7/8" < 3 1/2" OK

ENGINEERING

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GENE S. PORTER INC. (916) 362-4363 FAX (916) 362-1715

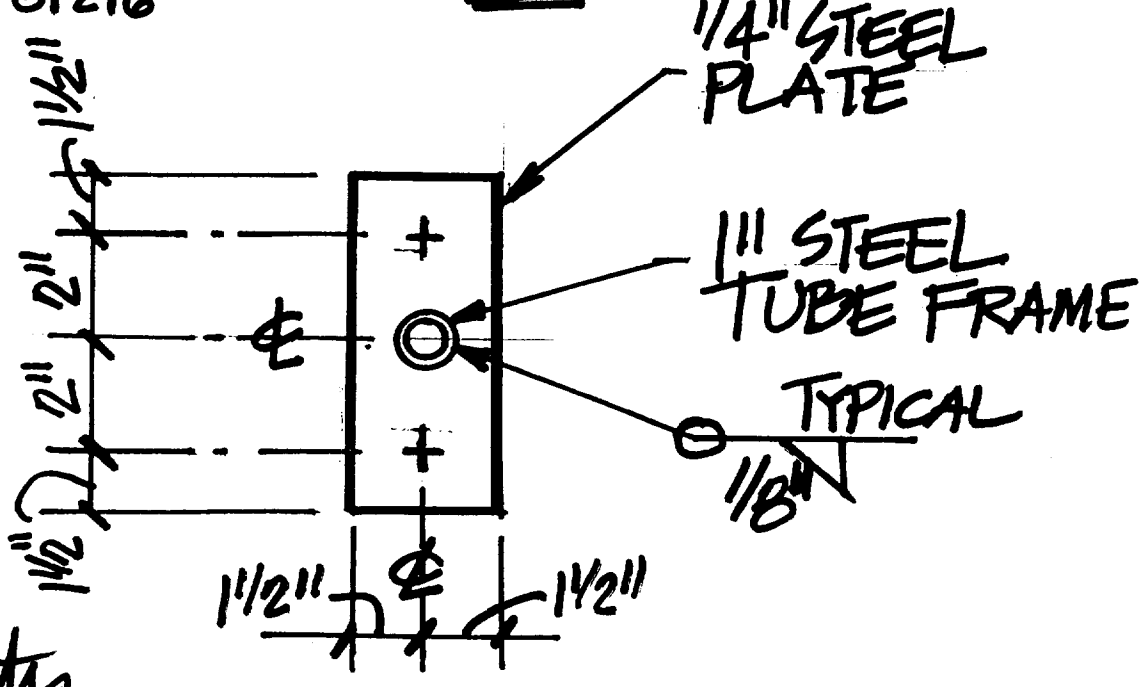
BLUE PACIFIC AWNING COMPANY
4756 BAMBI LANE
PLACERVILLE, CA

SHEET 3B OF 3

JOB NO. 20-046

ALLOW WITHDRAWAL (#/IN OF PENETRATION) = 142 #/IN X 1.50 IN (MIN), = 213# OK

GAGE = 0.216
G=0.48



6/9/2000

REGISTERED PROFESSIONAL ENGINEER
GENE S. PORTER
No. 15,182
CIVIL
STATE OF CALIFORNIA

EXP 3/31/01

STEEL PLATE FOR FASTENING AWNING FRAME TO WALL

ICBO Evaluation Service, Inc.
A subsidiary corporation of the International Conference of Building Officials

EVALUATION REPORT

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Report No. 1372
June, 1992

Filing Category: FASTENERS—Concrete and Masonry Anchors (066)

ITW RAMSET/RED HEAD SELF-DRILLING, NON-DRILL, STUD, DYNABOLT SLEEVE, TRUBOLT WEDGE, MULTI-SET II CONCRETE ANCHORS AND STEEL DECK INSERTS

ITW RAMSET/RED HEAD
1300 NORTH MICHAEL DRIVE
WOOD DALE, ILLINOIS 60191

I. **Subject:** ITW Ramset/Red Head Self-Drilling, Non-Drill, Stud, Dynabolt Sleeve, Trubolt Wedge, Multi-Set II Concrete Anchors and Steel Deck Inserts.

II. **Description:** A. **ITW Ramset/Red Head Self-Drilling Anchor:** The ITW Ramset/Red Head anchor is a self-drilling concrete expansion shell anchor with a single cone expander, both made from heat-treated steel. The steel for the body conforms to the minimum requirements of AISI Specification C-12L14 and the steel for the plug conforms to the minimum requirements of AISI Specification C-1010. The anchor has eight sharp teeth at one end and is threaded internally at the other end. The outer surface of the tubular shell at the toothed end has annular broaching grooves and four milled slits. At its threaded end, the anchor is provided with an unthreaded chucking cone which has an annular break-off groove at its base for breaking off the cone for flush mounting. Anchor shell and expander cone are electrodeposit zinc and chromate plated.

The anchors are installed either by a Model 747 Roto-Stop Hammer, by air or electric impact hammer, or by hand. The anchor is used as a drill in forming the hole in the concrete. After the hole is formed, the anchor is removed and the hole thoroughly cleaned. The depth of the hole is regulated by the drill chuck. A Red Head plug is set into the bottom of the anchor prior to insertion in the hole. The concrete anchor is then driven over the plug, causing an expansion of the anchor in the hole. The chucking end of the anchor is broken off with a hammer blow.

Verification that the anchor has been installed properly is evidenced by the fact that the anchor does not project above the surface of the concrete and that the red plug is visible at the bottom of the hole.

The allowable shear and tension values are as set forth in Table No. I.

B. **ITW Ramset/Red Head Non-Drill Anchor:** The non-drill anchor is designed to be installed in concrete in a predrilled hole. The shell is formed from steel meeting the minimum requirements of AISI C-12L14 and is provided with internal threads at one end and a plain hole at the expansion end which is divided into four equal segments by radial slots milled axially along the length of the shell. A series of annular broaching rings are cut into the expansion end of the anchor. The anchors are set over a hardened steel conical-shaped expander plug by driving the anchor flush with the surface of the concrete. The heat-treated plug is of steel meeting the minimum requirements of AISI C-1010.

The anchors are installed in drilled holes having a diameter and length the same as the anchor. After the hole is formed, all concrete cuttings are removed and the anchor is set in a manner identical to the self-drilling anchor. The allowable shear and tension values are as set forth in Table No. II.

C. **ITW Ramset/Red Head Stud Anchors:** The ITW Ramset/Red Head stud anchor is a non-drilling anchor which provides a protruding externally threaded stud when installed and is formed from steel meeting the minimum requirements of AISI C-1213. The anchor body has an axial hole, axial slots and series of annual broaching rings in the expansion end of the anchor. A flanged, conical expansion plug of steel meeting the minimum requirements of AISI C-1010, is preassembled into the body.

The anchors are installed in drilled holes having a diameter the same as the anchor and are set as described above the self-drilling anchor. The allowable shear and tension values are as set forth in Table No. III.

D. **ITW Ramset/Red Head Dynabolt Sleeve Anchor:** The Dynabolt sleeve anchors are designed to be installed in a predrilled hole equal to the anchor diameter and are expanded by tightening the hex nut or head-style nut with a wrench or screwdriver. The external shell or expansion sleeves are stamped and formed from commercial quality carbon steel or stainless steel meeting the minimum requirements of AISI C-1010 or Type 304, respectively, in No. 22 and No. 16 gauges. The threaded expansion pins with integral conical expanders are formed from carbon steel or stainless steel meeting the minimum requirements of AISI C-1010 or Type 304, respectively. Holes are drilled into the concrete or masonry at the required locations of the same diameter as the nominal anchor diameter. The anchors are placed in the hole and the nut is turned until the minimum installation torque as indicated in Table No. IV is reached. Allowable shear and tension values are as set forth in Table No. IV.

E. **ITW Ramset/Red Head Trubolt Wedge Anchor:** The Trubolt wedge anchors consist of a stud bolt type of drop-in anchor designed for use in stone and lightweight aggregate concrete of various strengths. The anchors are cold formed or machined from either zinc-plated and chromate-dipped carbon steel, hot-dipped galvanized carbon steel or stainless steel. These anchors meet the minimum requirements of AISI C-1015 to AISI C-1022 and AISI C-1213 carbon steels, or Type 302HQ, Type 303 or Type 316 stainless steels. The expander sleeves are fabricated from carbon or stainless steel meeting the minimum requirements of AISI C-1010 or Type 302, respectively. The anchor stud is threaded at its upper end and has a straight cylindrical section reduced in diameter around which the expander sleeve is formed. A straight-tapered section enlarging to a cylindrical base acts to increase the diameter of the expander ring as the stud is tightened in the concrete hole. The expander ring, which is formed around the stud bolt, consists of a split ring element with a "coined" groove at each end. The expander ring is designed to engage the walls of the concrete hole as the tapered portion of the stud is forced upward against its interior. Cold-formed anchor studs are available only for the $^1/_4$-, $^3/_8$-, $^1/_2$-, $^5/_8$- and $^3/_4$-inch-diameter wedge anchors.

The anchors are installed in the field by drilling a hole in the concrete, the same nominal size as the anchor size, to a depth greater than the length of embedment desired, but no less than the minimum embedment. It is not necessary to clean out the hole prior to the installation of the anchor, provided the hole is sufficiently deeper than the desired embedment. The anchor is then tapped into the hole to the embedment depth desired, but

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TABLE NO. I—ITW RAMSET/RED HEAD SELF-DRILLING ANCHOR ALLOWABLE SHEAR AND TENSION VALUES (Pounds)[1] [2]

BOLT DIAMETER (Inches)	ANCHOR DIAMETER (Inches)	MINIMUM EMBEDMENT DEPTH (Inches)	STONE AGGREGATE CONCRETE																	
			f'_c = 2000 psi						f'_c = 3000 psi						f'_c = 4000 psi					
			Tension				Shear		Tension				Shear		Tension				Shear	
			With Sp. Insp.[3]		Without Sp. Insp.[4]				With Sp. Insp.[3]		Without Sp. Insp.[4]				With Sp. Insp.[3]		Without Sp. Insp.[4]			
			A307	A449	A307	A449	A307	A449	A307	A449	A307	A449	A307	A449	A307	A449	A307	A449	A307	A449
1/4	7/16	1 1/16	535	535	270	270	485	725	630	630	315	315	485	760	630	740	315	370	485	800
5/16	15/32	1 5/16	650	650	325	325	750	880	770	770	385	385	750	925	905	905	455	455	750	985
3/8	9/16	1 1/2	790	790	395	395	1060	1060	940	940	470	470	1090	1125	1120	1120	560	560	1090	1200
1/2	11/16	2	1160	1160	580	580	1525	1525	1400	1400	700	700	1655	1655	1690	1690	845	845	1770	1770
5/8	27/32	2 7/16	1705	1705	850	850	2250	2250	2090	2090	1045	1045	2475	2475	2550	2550	1275	1275	2625	2625
3/4	1	3 1/4	2505	2505	1250	1250	3255	3255	3125	3125	1510	1510	3590	3590	3875	3875	1790	1790	4000	4000
7/8	1 1/8	3 11/16	3700	3700	1850	1850	4755	4755	4425	4425	2215	2215	5325	5325	5875	5875	2940	2940	5950	5950

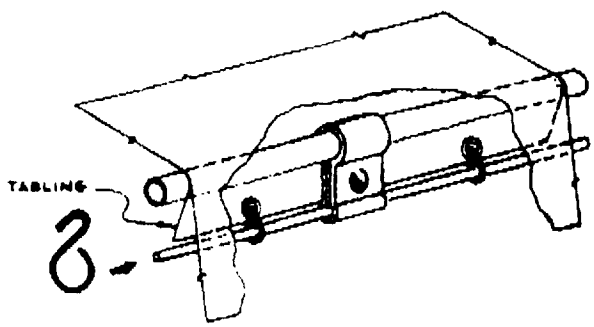
BOLT DIAMETER (Inches)	ANCHOR DIAMETER (Inches)	MINIMUM EMBEDMENT DEPTH (Inches)	LIGHTWEIGHT AGGREGATE CONCRETE					
			f'_c = 4000 psi			f'_c = 6000 psi		
			Tension		Shear	Tension		Shear
			With Sp. Insp.[3]	Without Sp. Insp.[4]		With Sp. Insp.[3]	Without Sp. Insp.[4]	
1/4	7/16	1 3/32	445	220	500	660	330	515
5/16	15/32	1 5/16	565	280	700	760	380	760
3/8	9/16	1 1/2	725	360	900	900	450	1010
1/2	11/16	2 1/32	1100	550	1450	1330	665	1630
5/8	27/32	2 7/16	1500	750	2025	1910	955	2250
3/4	1	3 1/4	2025	1010	2725	2700	1350	3000
7/8	1 1/8	3 11/16	2770	1385	3715	3910	1955	4055

[1]The tabulated shear and tensile values are for anchors installed in concrete having the designated ultimate compressive strength at the time of installation. Values for stone aggregate concrete have been tabulated for both ASTM A 307 and A 449 bolts installed with the device. Values for lightweight concrete are tabulated with either ASTM A 307 or A 449 bolts installed with the device.

[2]The tabulated values are for anchors installed a minimum of 12 diameters on center and a minimum edge distance of six diameters for 100 percent anchor efficiency. Spacing and edge distance may be reduced to six-diameter spacing and three-diameter edge distance, provided the values are reduced 50 percent. Linear interpolation may be used for intermediate spacings and edge margins.

[3]These tension values are applicable only when the anchors are installed with special inspection as set forth in Section 306 of the code.

[4]These tension values are applicable when the anchors are installed without special inspection as set forth in Section 306 of the code.

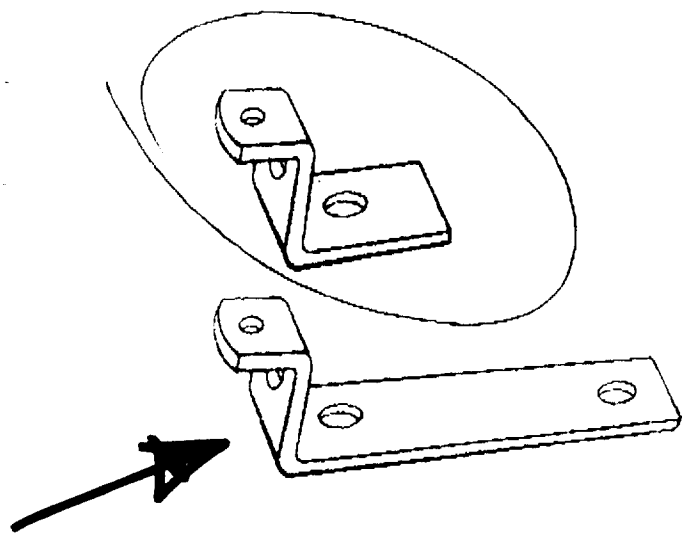


Allen "S" Hook

No. 92 Allen "S" Hook is made of steel wire with a smooth, rust resistant zinc plated finish and is designed to end the time consuming job of hand tying the tabling of a stationary awning to the tie down bar. The hook slips on to the 3/8 inch tie down bar of the stationary awning frame. The open end of the hook is then inserted through the grommet in the front bar tabling strip. The result is a quick, neat awning when tie clamps are tightened.

Style No.

92 Allen "S" Hook



"Z" Brackets

Awning frames can easily be mounted with this bracket, available for 3/4" and 1" tubing. Made from 3/16" hot rolled steel, it's supplied with plating or without (for applications requiring painting). Two holes are provided to secure bracket to wall. There is also a 3/16" hole to accommodate a tek screw for fastening the frame.

For Tube Size	Finish	Std. Pkg.
3/4 inch	Plain	50
3/4 inch	Plated	50
→ 1 inch	Plain	50
1 inch	Plated	50

GOODWIN COLE CO.
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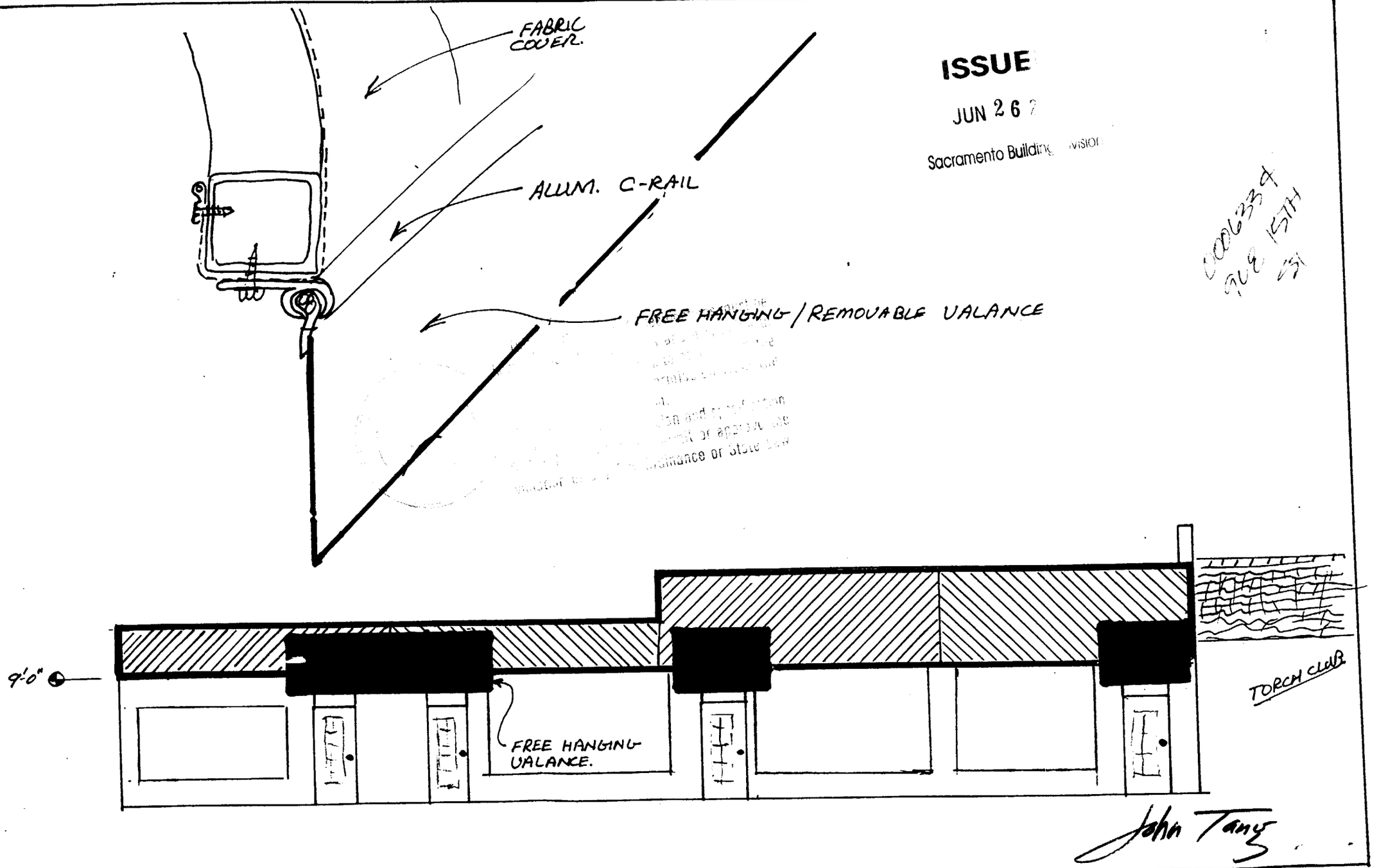

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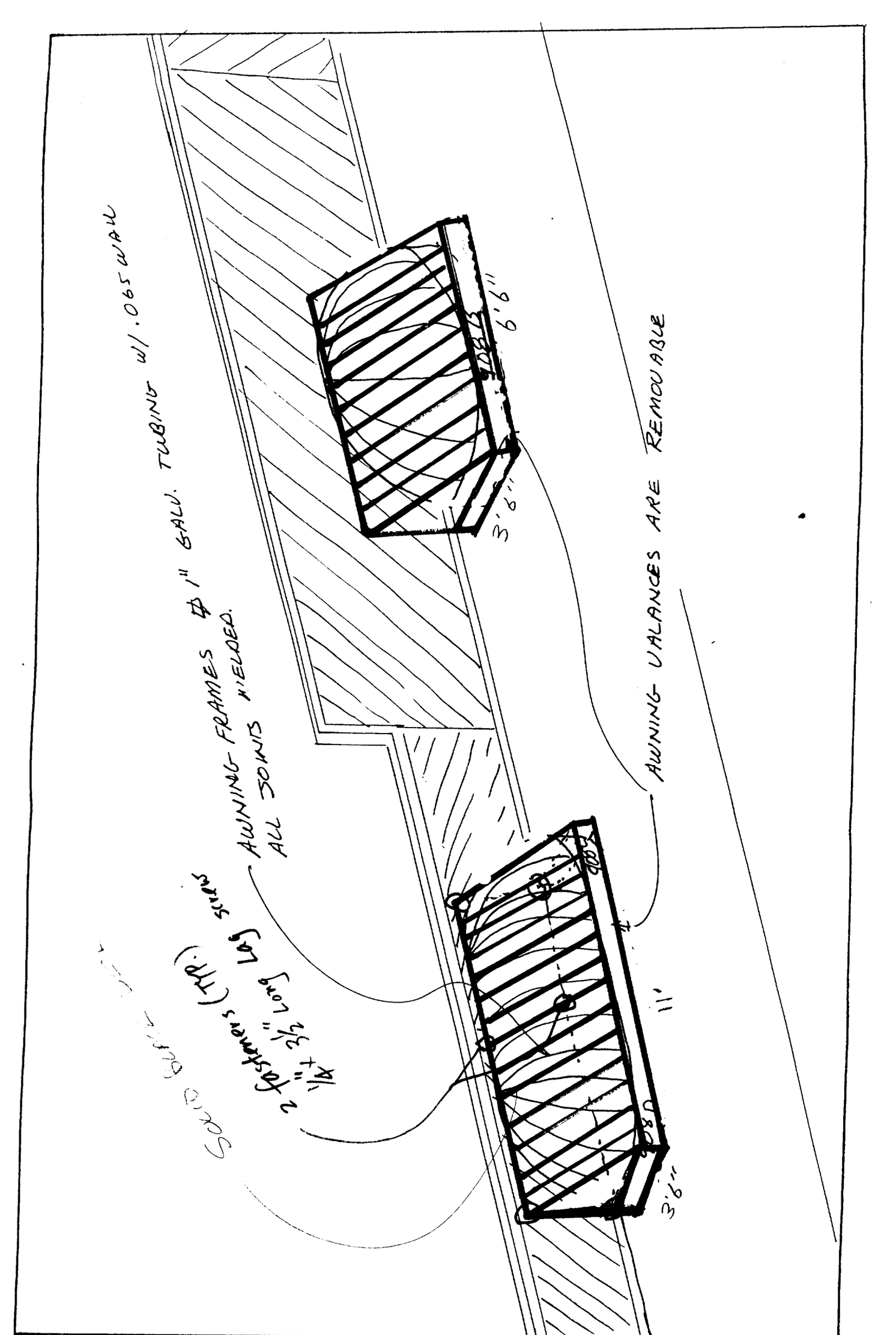

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