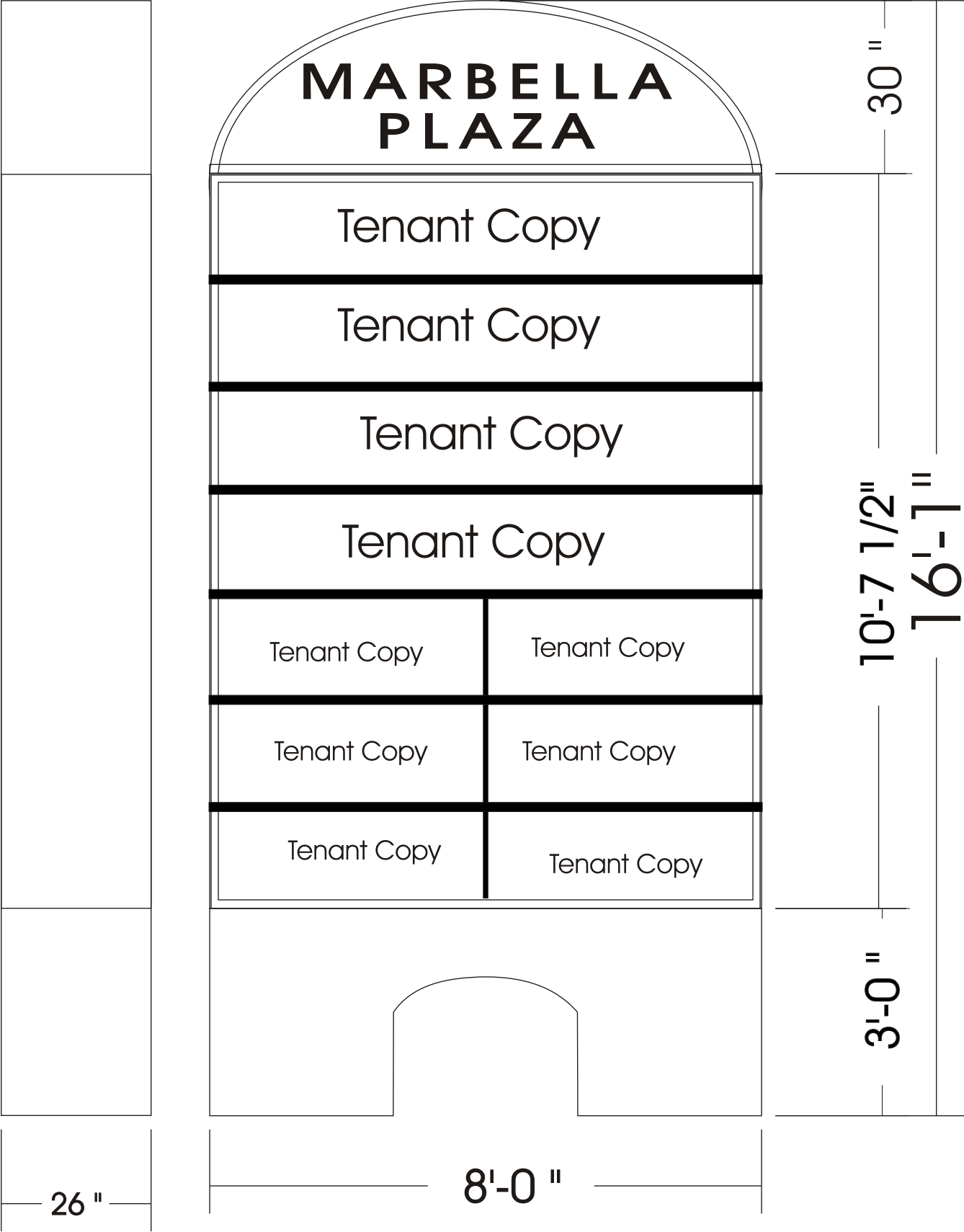




Double Face Director w/ Horizontal T-Bar Retainers

Electro Graphics, Power, Lighting, & Signs, Inc. State: ER13012733 Dade CC 93E000533 Project Manager: Paul Diaz (786) 251-9254 This is an unpublished drawing, created by E. G. P. L. & S., Inc. It is submitted for your personal use in connection with a project being planned for you by E. G. P. L. & S., Inc. It is not to be shown to anyone outside your organization, nor is it to be used, reproduced, copied, or elicited in any fashion whatsoever. All or any part of this design (except registered trademarks) remain the property of E. G. P. L. & S., Inc.	JOB NAME: MARBELLA PLAZA	
	LOCATION:	
	Hialeah, FL 33xxx	
	Jan 27, 2004	
DRAWN BY: Paul SCALE: As Noted		

EMILIO CASTRO, P.E. # 41592 CIVIL
 E.C. & ASSOCIATES, INC. EB 0006576
 CONSULTING CIVIL & STRUCTURAL ENGINEERS
 14811 S.W. 9th Lane • Miami, FL 33194
 Tel: (305) 480-7884 • Fax: (305) 480-7886

PROJECT: MARBELLA PLAZA

$P_w = 54 \text{ psf (ASCE 7-98) MAX.}$

DESIGN CRITERIA:

$$F_y = 36 \text{ KSI}$$

$$F_{all} = .6 F_y$$

$$\text{STR. INC.} = 1.33$$

$$\text{EXP. CAT. 'C'}$$

$$I = 1.0$$

$$V = 146 \text{ MPH}$$

$$f'_c = 2500 \text{ psi}$$

$$\text{GR. 60 REBAR}$$

$$P_{at} = 200 \text{ psf/ft}^2$$

$$\Sigma M_e + 5' \text{ A.F.G. :}$$

$$M = 8(1.1)54(10.55) + 10(8)(.5)47 = 23,813 \text{ FLBS}$$

$$S_{REQ.} = \frac{23,813(12)}{36,000(1.33)(.6)(2)} = 4.98 \text{ IN}^3$$

USE: 6" ϕ SCH 40 PIPES

$$\Sigma M_e \text{ GRADE :}$$

$$M = 8(1.1)54(15.5) + 8(15)(7.5)47 = 49,667 \text{ FLBS}$$

$$S_{REQ.} = 49,667(12) / 36,000(1.33)(.6)(2) = 10.4 \text{ IN}^3$$

USE: 8" ϕ SCH 40 PIPES

$$\text{FTG. : } e = M/p = 49,667 / 6115 = 8.1'$$

$$F = \frac{6115}{2} (0.34(5) + 8.1) / .56(5) = 10,701$$

$$f_{crit} = 10,701 / 200(2)5 = 5.35$$

$$L_{MIN} = 5.35 / 0.32(5) = 3.3' \text{ (IF DEPTH IS INCREASED TO 5'-6", THEN)}$$

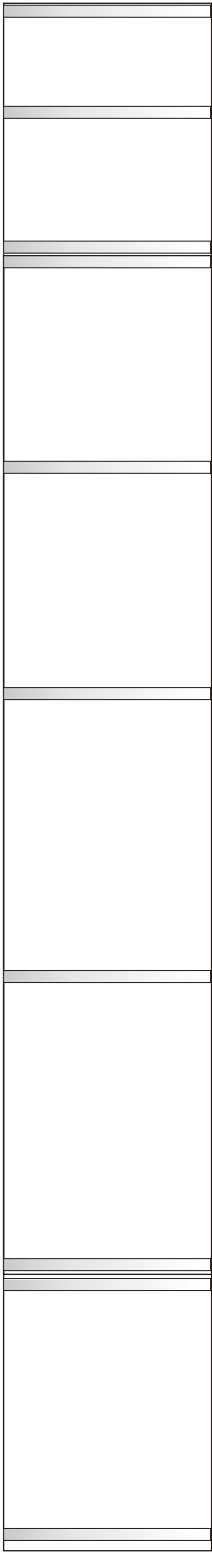
$$F = 9900, f_{crit} = 4.5$$

$$L_{MIN} = 2.6' \text{ O.K.}$$

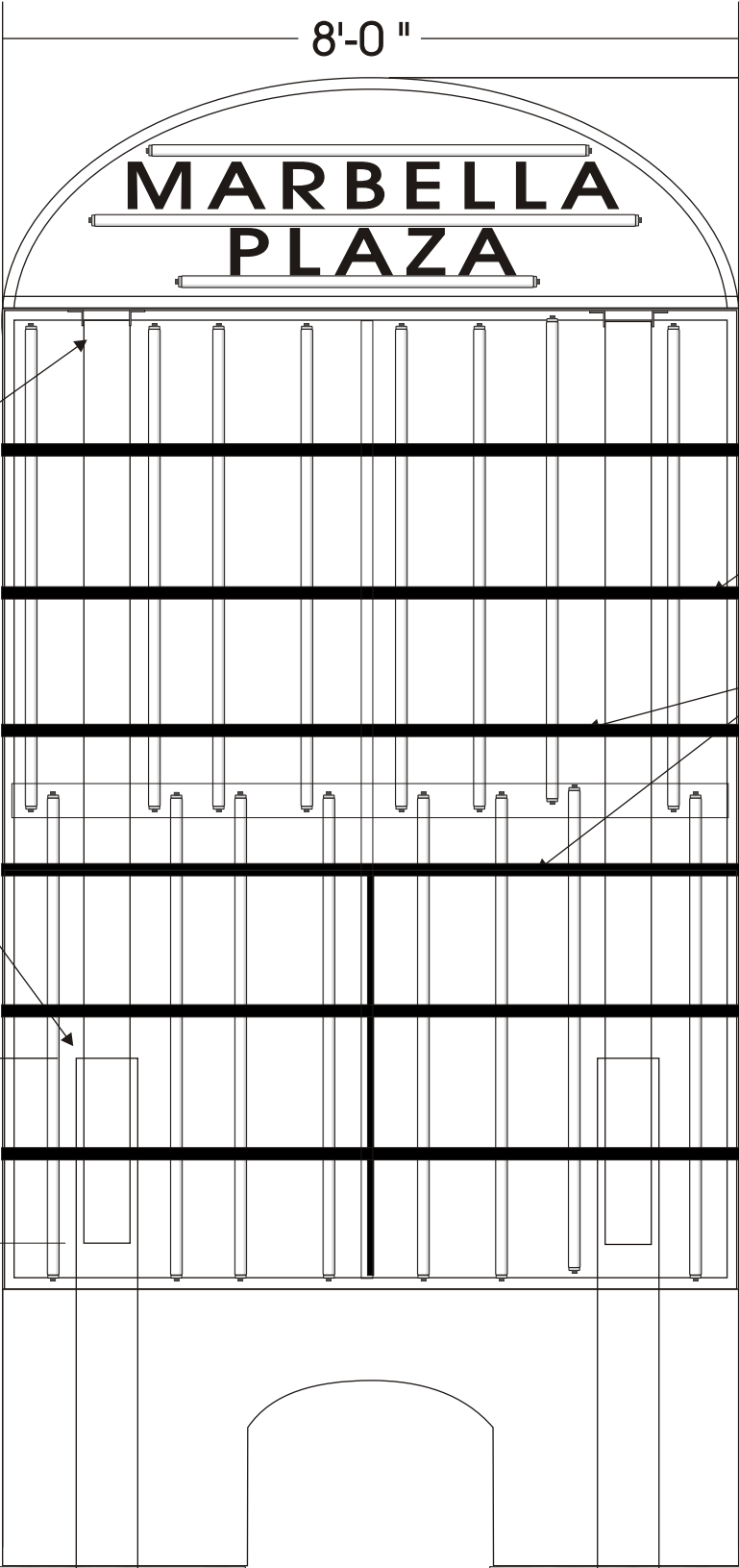
USE: 3" ϕ x 5'-6" DEEP FTGS. -- NO STL.
 REQ'D.

Emilio Castro
 11/27/04
 1/1

1.5"x 1.5"x3/14" Al Angle welded w/ 0.040 Cladding Steel and Aluminum seperated by Lexan shim



See Next Page for Connection Details



Typ. AL T-Bars

Typ. Ballast

30"

10'-7 1/2"

16'-1"

3'-0"

4'-6"

26"

5'-6"

36"

36"



Certified Sign
Manufacturer
UXYT.E202255
ELECTRO GRAPHICS

2500 p.s.i.
Concrete

Electro Graphics, Power, Lighting, & Signs, Inc.

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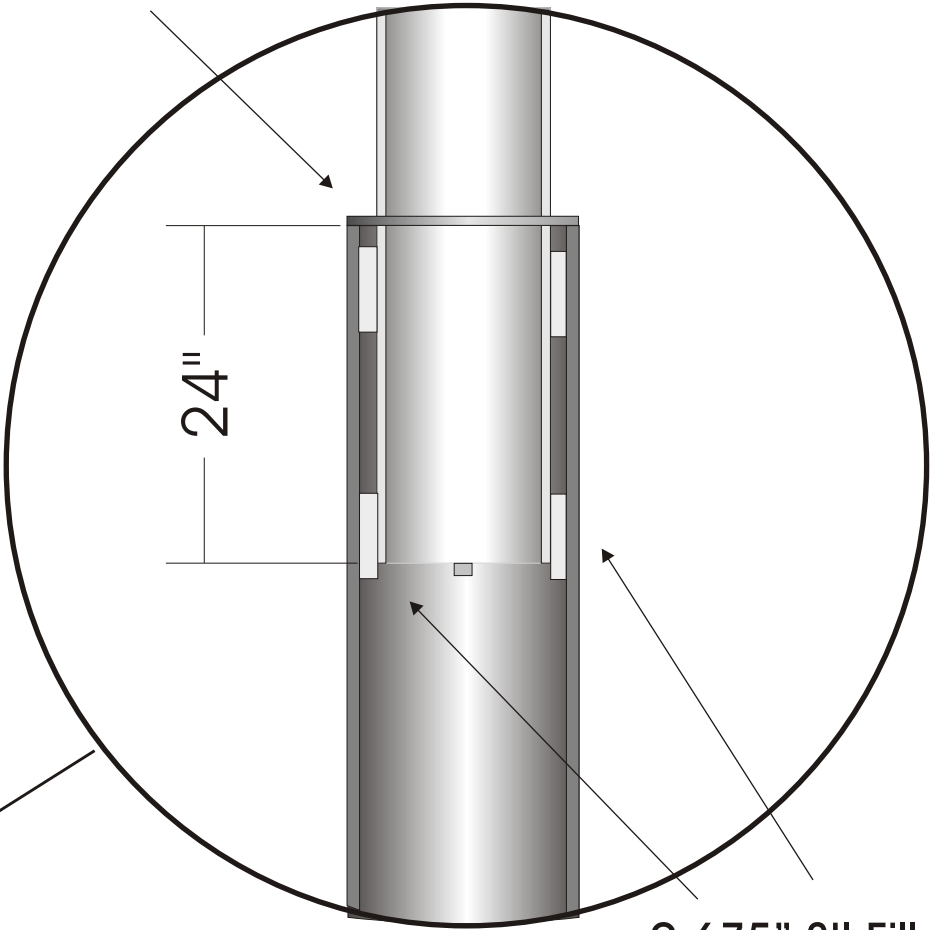
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1/2" Stl Cap Ring
O.D 8.625" I.D. 6.750

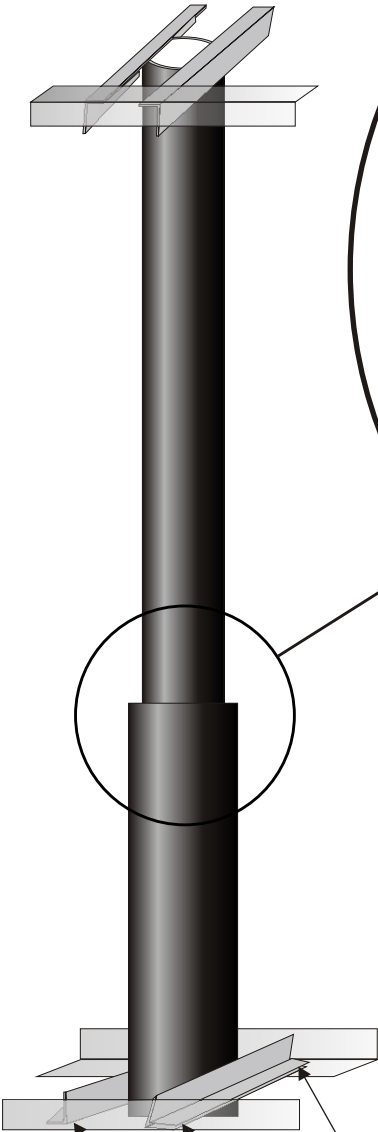
All Welds 3/16"

Typ. Stl Saddle
(2"x 2"x 0.25")
welded to Pipe
Top & Bottom



0.675" Stl Filler
welded to bottom
of 6" (SCH 40) Pipe

TYPICAL PIPE SECTION TRANSITION SHOWN.



Bolted 3/8" w/ .040 Lexan shim to separate Dissimilar Metal Top & Bottom of Main Sign

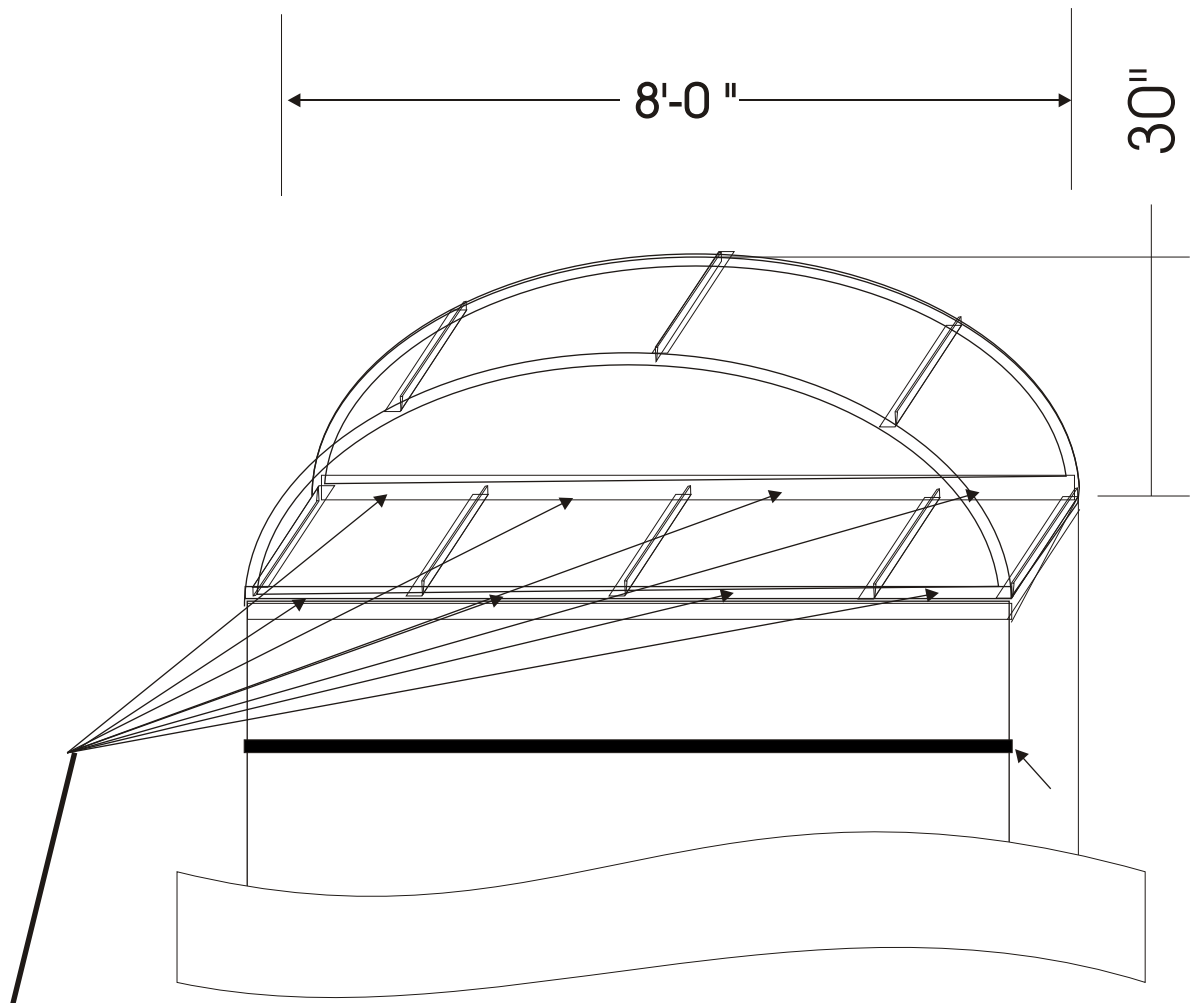
6" SCH 40 : O.D.= 6.625" I.D.=6.065" Wall= 0.280" Lbs/Ft= 18.97
8" SCH 40 : O.D.= 8.625" I.D.=7.981" Wall= 0.322" Lbs/Ft= 28.55

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Al Frame welded w/ stringers
Top Cap Faces are 0.080 AL (Routed)
Return Cladding is 0.040 Riveted



Top Cap is attached to Main Cabinet
by 3/8" dia. Bolts w/ washers and nuts
through 1-1/2"x 0.187 angles Front and rear

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