

USE BLACK INK BALL POINT PEN - PRESS FIRMLY
SIGN PERMIT APPLICATION

DATE: 08/15/11
 TIME: 1:00
 NAME: BOG - 9/11 - 2/2 PERMIT NO. 0013019

APPLICANT: Matthew Beck ADDRESS: 17519th Ave Sac CA PHONE: 458318 / 916 441 5445

TYPE OF SIGN: AVE MARKER SIGN IDENTIFICATION IDENTIFICATION IDENTIFICATION
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SIGN TYPE: FUEL Espresso + Day Bar SIGN INFORMATION: 204

CITY OF SACRAMENTO PERMIT SERVICES
 BUILDING INSPECTION DIVISION 264 7614

521375
 00 08
 - C-3
 Dan Williams / Supervisor
 8/17 2:30pm

X 5.18.00 GNW3

5.18.00 GNW3

D. Paolini 12-12-00

MS 5/11/11 15:00

TOTAL \$

TOFF, DE NEVERS & LEE

JOB NO. 5938
NO. 1
BY RA
DATE 6/23/07

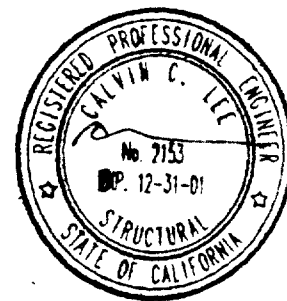
STRUCTURAL CALCULATIONS

FOR CONNECTION OF FUEL ESPRESSO AND

DRIP BAR SIGN TO

ESQUIRE PLAZA CANOPY

SACRAMENTO, CA.



DESIGN SIGN CONNECTION- DESIGN LOADS

- SIGN WEIGHT = 40#
- DETERMINE WIND LOAD PER 1994 UBC
- BASIC WIND SPEED = 80 MPH
- IMPORTANCE
- HT. < 15 FT. EXP. E
- SIGN

$$q = C_e C_q q_s I$$

$$q_s = 16.4 \text{ PSF}$$

$$I = 1.0$$

$$C_e = 0.62$$

$$C_q = 1.4$$

$$q = (0.62)(1.4)(16.4 \text{ PSF})(1.0) = 14.2 \text{ PSF}$$

USE WIND LOAD = 20 PSF

- WIND GOVERNS OVER SEISMIC LOADING BY INSPECTION

- MATERIALS

USE 6063-T5 ALUMINUM
 $E = 10,100 \text{ KSI}$ $F_y = 16 \text{ KSI}$

- CONNECTION DESIGN

SIGN IS 50.5' x 50.5' (17.7 FT^2)
 $P_{\text{WIND}} = (20 \text{ PSF})(17.7 \text{ FT}^2) = 354 \text{#}$

$$F_v = 40 \text{#} / 2 = 20 \text{#}$$

$$F_h = 354 \text{#} / 4 = 88.5 \text{#}$$

$$M_z = 177 \text{K} \left(\frac{50.5}{4} + 12.25 \right) = 6.6 \text{ K-FT}$$

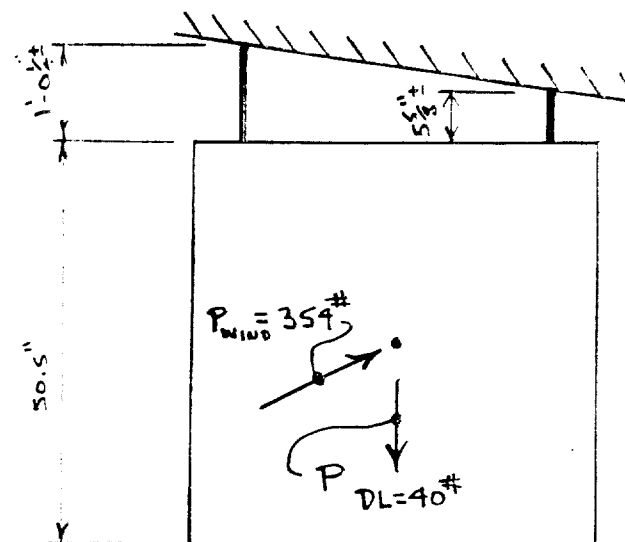
USE 2" ϕ ALUM. PIPE (2.38" O.D.)

x SCH. 160
 $A = 2.19 \text{ IN}^2$
 $S = 0.95 \text{ IN}^3$

$$F_c = M/S = 6.6 \text{ K-FT} / 0.95 \text{ IN}^3 = 6.7 \text{ KSI}$$

$$< F_y = 16 \text{ KSI} \quad (40 \text{#} = 10.7 \text{ KSI})$$

o.k.



- FOR ALL-AROUND FULL PEN. WELD TO ALUM. # $\frac{7}{16} \times 2\frac{1}{2}$ "

$$A_w = 2.19 \text{ in}^2$$

$$S_w = 0.977 \text{ in}^3$$

$$f_w = \sqrt{(.090/2.19)^2 + (.177/2.19)^2 + (6.6/0.977)} = 6.7 \text{ Ksi}$$

$$F_w = (5K)(4/3) = 6.66 \text{ Ksi} \approx f_w = 6.7 \text{ Ksi } \underline{\text{o.k.}} *$$

- CHECK 4 - $\frac{1}{4}$ " ϕ S.S. NUTS.

$$f_T = \frac{.046}{4} + \frac{6.6}{4} = .010 + .825 = 0.835 \text{ K/screw}$$

$$f_V = .177/4 = 0.44 \text{ K/screw}$$

$$F_T = (1295/226)(1.272 \text{ in}^2)(4/3) = 1,009 \text{ #/screw} > f_T = 835 \text{ #/screw}$$

$$F_V = (64)(9) = 863 \text{ #/screw} >> f_V = 44 \text{ #/screw } \underline{\text{o.k.}}$$

- CHECK ALUM # $\frac{7}{16} \times 2\frac{1}{2}$ "

$$M = 2(.835 \text{ K})(2 - 1.19 \text{ in}) = 1.35 \text{ in} \cdot \text{K}$$

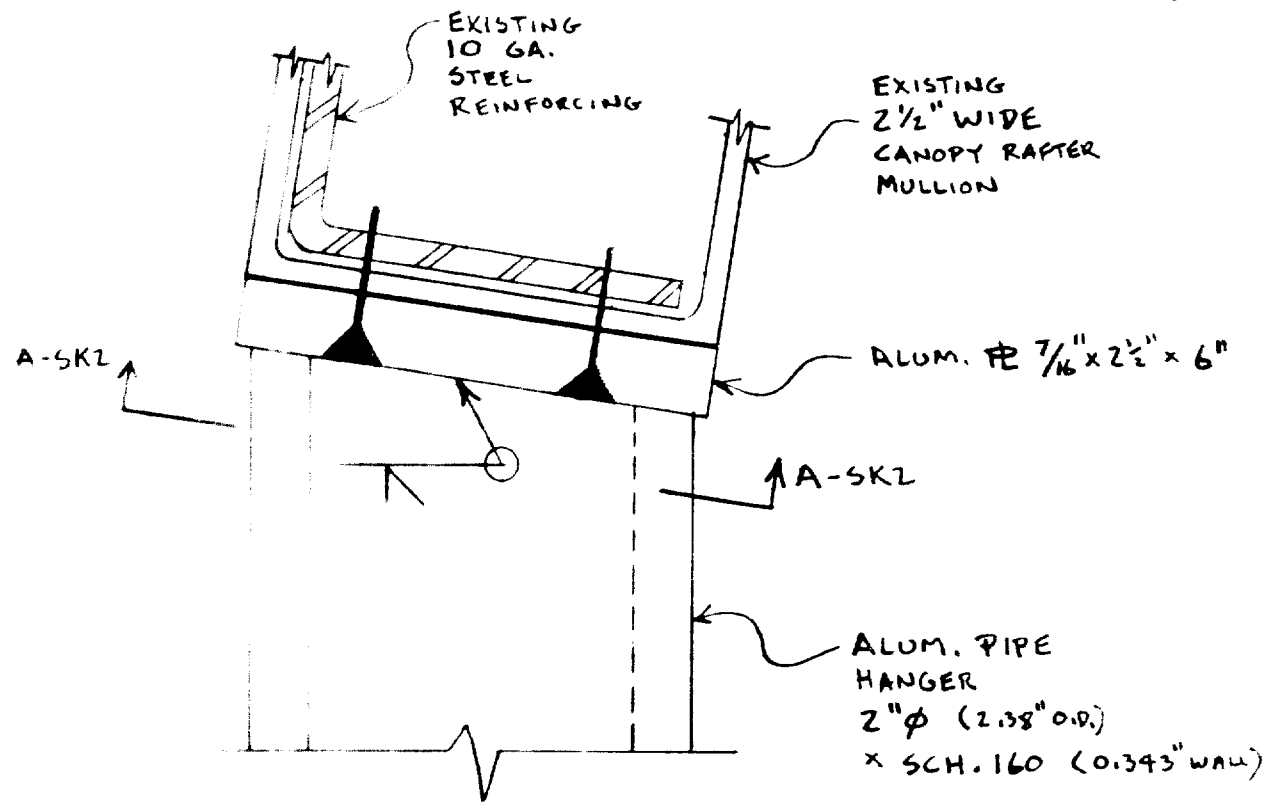
$$S = 2(.57435 \text{ in}^3)/2 = 0.574 \text{ in}^3$$

$$f_b = 1.35/0.574 = 16.9 \text{ Ksi} \approx F_b = 12.5(4/3) = 16.7 \text{ Ksi} *$$

* NOTE: SLIGHT OVERDESIGN O.K. DUE TO USE OF 20 TSE WIND LOAD
INSTEAD OF 19.2 PSF COVE LOAD.

TOFFI, DE NEVERS & LEE
CONSULTING STRUCTURAL ENGINEERS
111 MAIDEN LANE, SUITE 500
SAN FRANCISCO, CA 94108-5324

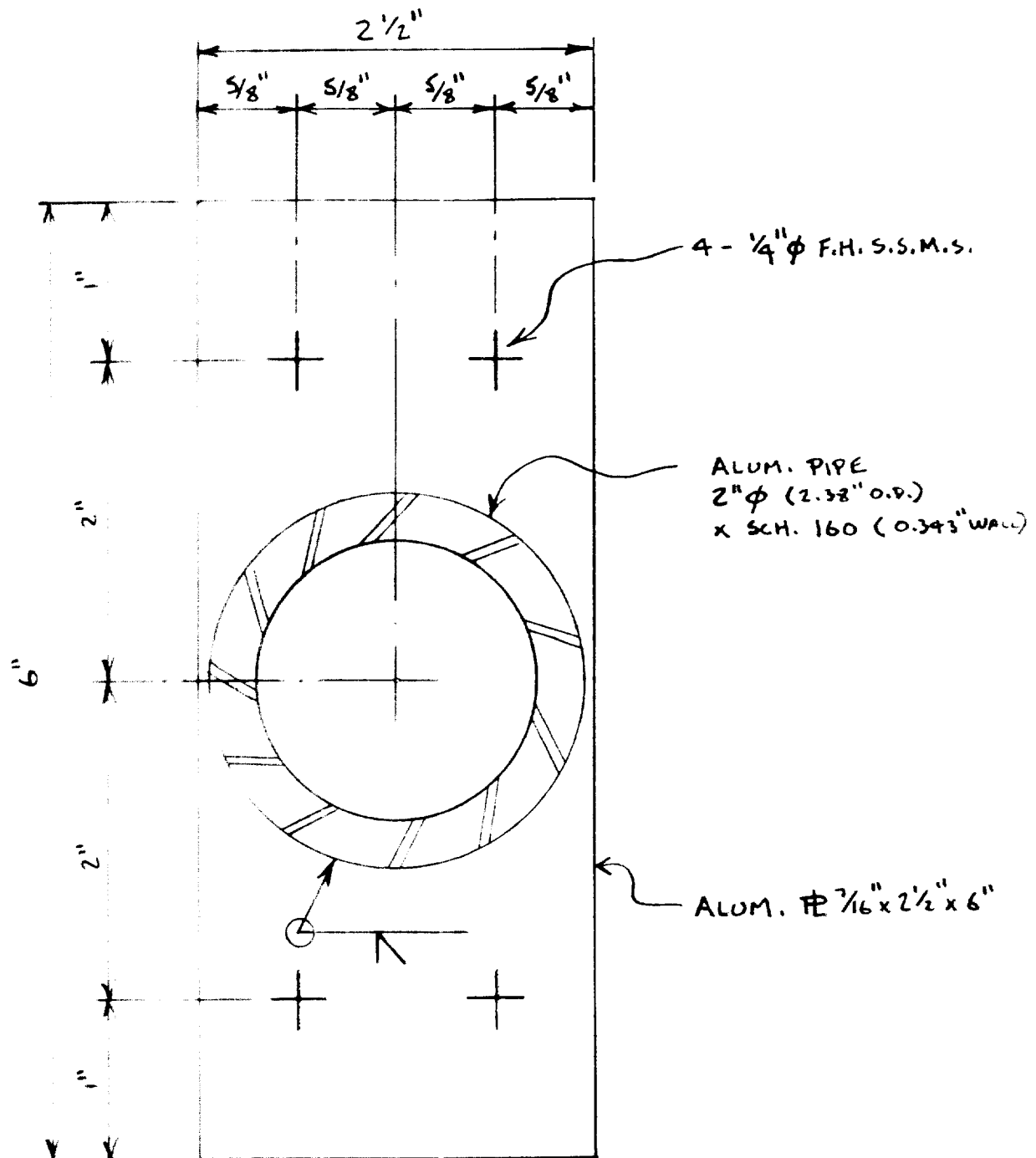
JOB NO. 5938 SH SK1
NO. 4 OF 5
BY: JIA DATE 6/23/00



A - SK1
1" = 1"

TOFT, DE NEVERS & LEE
CONSULTING STRUCTURAL ENGINEERS
111 MAIDEN LANE, SUITE 500
SAN FRANCISCO, CA 94108-5327

JOB NO. 5958 SH SK2
NO 5 OF 5
BY SA DATE 6/23/00

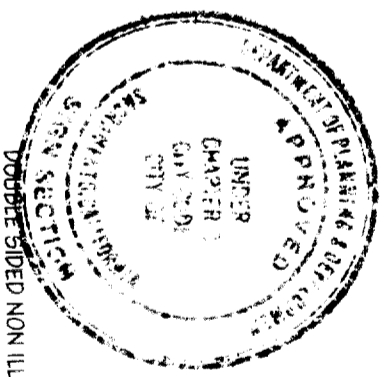


4517 Franklin Blvd.
Sacramento, CA 95820

916-452-8000
916-452-3331

This set of plans and specifications shall be the basis for the work of the contractor and it is understood that any changes or alterations to the drawings shall be made by the architect and approved by the City of Sacramento, California.

The contractor shall be responsible for obtaining all necessary permits and for complying with all applicable laws, codes, and ordinances of the City of Sacramento, California.



DOUBLE SIDED NON ILLUMINATED HANGING SIGN

ALL DIMENSIONS ARE TO FIELD INSPECTIONS

DOUBLE SIDED NON ILLUMINATED HANGING SIGN
ALL DIMENSIONS ARE TO FIELD INSPECTIONS

Project: FUEL ESPRESSO & DRIP BAR
 Company: [Blank]

Work Order: 21124
 Drawn by: HDM
 Date: 04-03-00

Revisions:
 06-22-00 HDM 1
 08-24-00 HDM 2

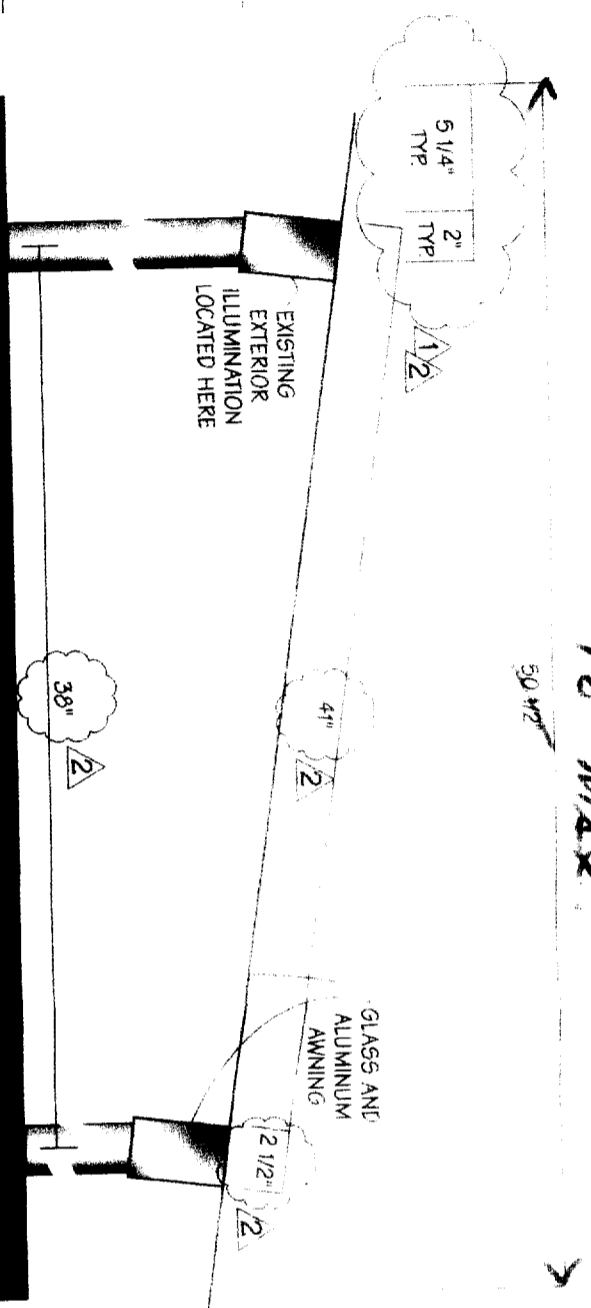
Working Title: MID-H

AS NOTED:
 1

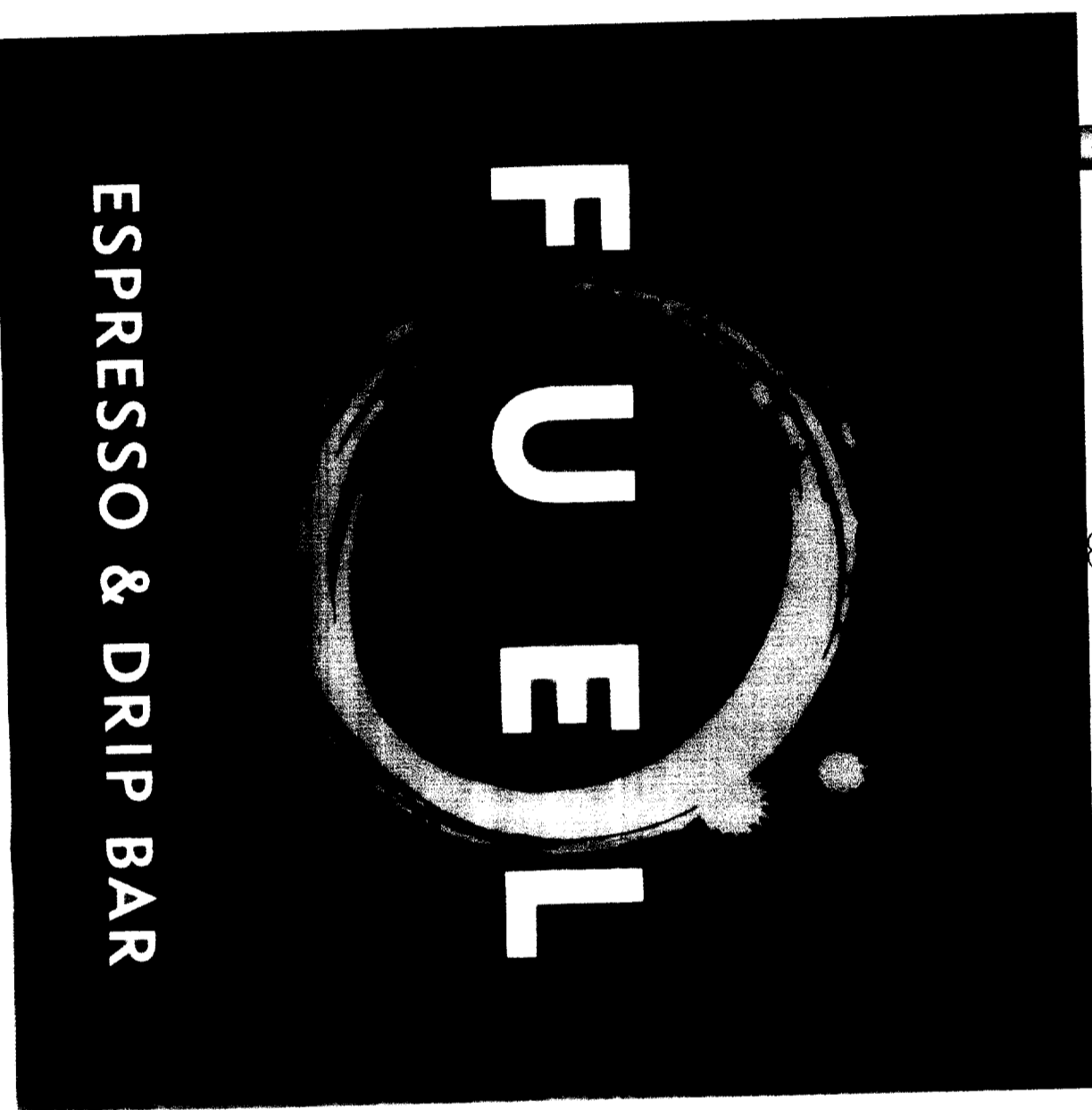
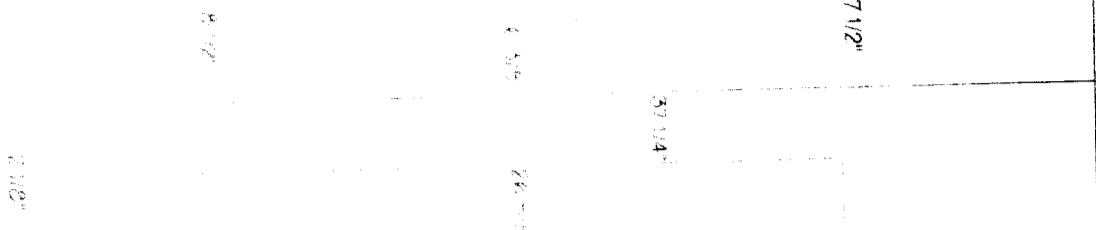
421315

48" MAX

50" MAX



48" MAX



FRONT ELEVATION
 SCALE: 1/8" = 1"

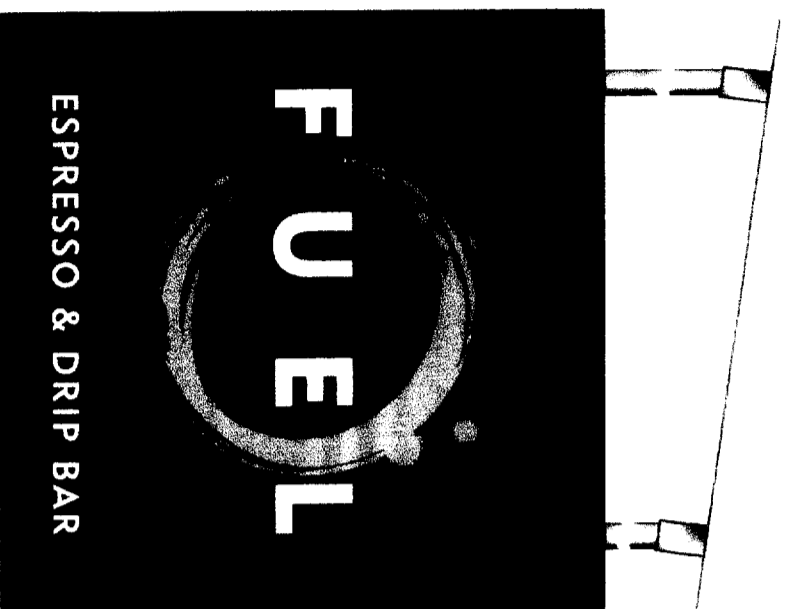


PLAN VIEW
 SCALE: 1/16" = 1"

John Long

8. Weidner Architectural/Signage, Inc. shall not be responsible for any errors or omissions in these drawings or specifications, and shall not be liable for any damages or losses resulting from the use of these drawings or specifications, whether or not such damages or losses are caused in whole or in part by the negligence of Weidner Architectural/Signage, Inc.

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96" MIN

1000"



FRONT ELEVATION
SCALE: 1/16" = 1"

Drawing Title
MID-H

Scale

ADD NOTES
Date: _____

2

8. Make architectural sign. (A sign of the above drawing) sign, except for the lettering, shall be duplicated or used for any purpose whatsoever, without the express written permission of the copyright holder.

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VISUAL STUDY
SCALE: NTS

Project

FUEL ESPRESSO
& DRIP BAR

Company

FUEL ESPRESSO
& DRIP BAR

Work Order

21124

Drawn By

HDM

Date

08-22-00

Revisions

Project Title

MID-H

Scale

Architect

Date

3

All notes, specifications, and conditions of contract shall be a part of the contract documents. No verbal agreements or modifications shall be made to the contract documents without the written consent of the architect.