

GENERAL NOTES AND SPECIFICATIONS

- GOVERNING CODES:**
INTERNATIONAL BUILDING CODE 2009
INTERNATIONAL BUILDING CODE 2006
CALIFORNIA BUILDING CODE 2007
FLORIDA BUILDING CODE 2007
- DESIGN LOADS:**
DEAD LOAD, Minimum 5 LB/FT
MINIMUM 2.00 PSF
WIND LOAD, 150 MPH MAX. (3 SEC. GUST) EXPOSURE C
SEMI-RIGID
6.54 PSF
5.20 PSF
6.53 PSF
7.31 PSF
- RESTRICTIONS:**
THE DESIGN LOADS ABOVE ARE BASED ON A HEIGHT ABOVE GROUND OF 25 FEET MAXIMUM.
THE EXISTING STRUCTURE AND ITS CAPACITY IS NOT A PART OF THIS SCOPE OF WORK.
- LIMITATIONS:**
THE DESIGN AND CONSTRUCTION OF THE SIGN SHALL CONFORM TO THE ABOVE GOVERNING CODES WHEN INSTALLED AS SPECIFIED ON THIS DRAWING. NO OTHER WARRANTY IS EXPRESSED OR IMPLIED. ANY ALTERATION OF THIS DRAWING WILL VOID THE SHEET. THIS SHEET IS VALID ONLY IF IT INCLUDES A SET SIGNATURE BY THE ENGINEER OF RECORD.
- DO NOT REPRODUCE THESE DRAWINGS AND SPECIFICATIONS WITHOUT THE EXPRESSED WRITTEN PERMISSION OF STRUCTURAL TECHNOLOGY CONSULTANTS, INC. (STC). THE DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF THE SERVICE AND SHALL REMAIN THE PROPERTY OF STC. ANY REPRODUCTION OF THESE DRAWINGS OR SPECIFICATIONS WITHOUT THE WRITTEN PERMISSION OF STC IS STRICTLY PROHIBITED. ANY ADDITIONS TO THIS PROJECT BY OTHERS, EXCEPT BY THE EXPRESSED WRITTEN PERMISSION OF STC.**
- MATERIALS:**
A. ALL ALUMINUM MEMBERS GRADE 6061-T6 UNLESS NOTED OTHERWISE.
B. ALUMINUM EXTRUSION GRADE 6063-T5.
C. ROLLED STEEL, A572-43.
D. PROVIDE ISOLATION OF DISSIPABLE MATERIALS FOR ALL ALUMINUM TO BE IN CONTACT WITH STEEL.
E. SIGN PANELS SHALL BE APPROVED BY UNDERWRITERS LABORATORY, USE ONLY APPROVED FABRICS.
F. ANCHORS:
A. STEEL END STEEL (E.S.) SHALL BE 1/2" PER END-RIGHT SPECIAL INSPECTION REQUIRED.
B. STAINLESS STEEL (S.S.) SHALL BE PER END-RIGHT SPECIAL INSPECTION REQUIRED.
C. (E) CONCRETE DETAIL AS SHOWN.
D. (E) CONCRETE DETAIL AS SHOWN.
E. (E) HOLLOW CONCRETE DETAIL AS SHOWN PER THE SOLID GREAT FILLED CHL SPECIAL INSPECTION NOT REQUIRED.
- WORKMANSHIP:**
ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE GOVERNING CODE AND THE LOCAL BUILDING OFFICIAL.
- WELDING:**
STEEL WELDING:
ALL WELDING SHALL BE PERFORMED BY AWC CERTIFIED WELDERS USING E70 ELECTRODES OR HIGHER AND AWC APPROVED SYSTEMS AND PROCEDURES.
ALUMINUM WELDING:
ALL WELDING TO CONFORM TO AWS D12.1 2008 STRUCTURAL ALUMINUM WELDING CODE.
- NOTES:**
BORN INSTALLER SHALL VERIFY THAT THE CONDITIONS ARE CONSISTENT WITH THESE DRAWINGS FROM THE BORN INSTALLATION NOTIFY ENGINEER OF RECORD IMMEDIATELY IF THE CONDITIONS VARY FROM THESE DRAWINGS.
B. ADDITIONAL ENGINEERS
SITE SPECIFIC CALCULATIONS CAN BE PROVIDED BY STRUCTURAL TECHNOLOGY CONSULTANTS. CONTACT STC AT (310) 534-7600.

GENERAL NOTES

PERIMETER EXTRUSION PROPERTIES:

AREA = 21.11 in²

X-X AXIS:
I_x = 6.63 in⁴
I_y = 6.63 in⁴
S_x = 0.63 in³
S_y = 0.63 in³
r_x = 1.27 in
r_y = 1.27 in
C_x = 0.63 in
C_y = 0.63 in

Y-Y AXIS:
I_x = 6.63 in⁴
I_y = 6.63 in⁴
S_x = 0.63 in³
S_y = 0.63 in³
r_x = 1.27 in
r_y = 1.27 in
C_x = 0.63 in
C_y = 0.63 in

ALL OTHERS ARE STRONGER THAN 6061-T6 UNLESS NOTED OTHERWISE.

PERIMETER CONNECTION:

X-X AXIS: FLANGE (8.5" x 0.5" x 0.25") (SECTION 3.4.11)
Y-Y AXIS: FLANGE (8.5" x 0.5" x 0.25") (SECTION 3.4.11)

WALL MOUNT SIGN:
X-X AXIS: FLANGE (8.5" x 0.5" x 0.25") (SECTION 3.4.11)
Y-Y AXIS: FLANGE (8.5" x 0.5" x 0.25") (SECTION 3.4.11)

EXTRUSION PROPERTIES:

X-X AXIS: FLANGE (8.5" x 0.5" x 0.25") (SECTION 3.4.11)
Y-Y AXIS: FLANGE (8.5" x 0.5" x 0.25") (SECTION 3.4.11)

SAMPLE CALCULATION

CHECK PERIMETER EXTRUSION (6061-T6):

Length = 10' - (1.83' x 2) = 6.34'

Area = 3' x 7.25' = 21.75 in²

Section Modulus = 0.63 in³

Stress = $\frac{M}{S}$

Deflection = $\frac{5wL^4}{384EI}$

CHECK WALL CONNECTION (6061-T6):

Anchor = 6" x 6" x 1/2"

Concrete = 4000 psi

Steel = 60,000 psi

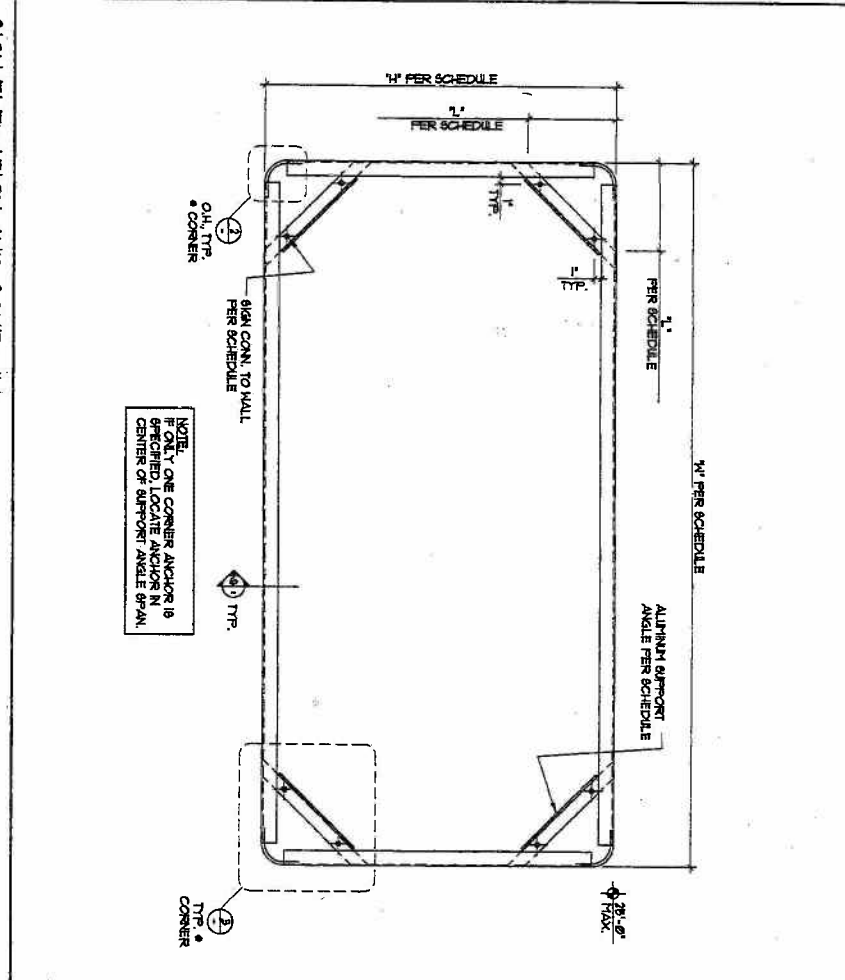
CORNER CONNECTION (6061-T6):

Anchor = 6" x 6" x 1/2"

Concrete = 4000 psi

Steel = 60,000 psi

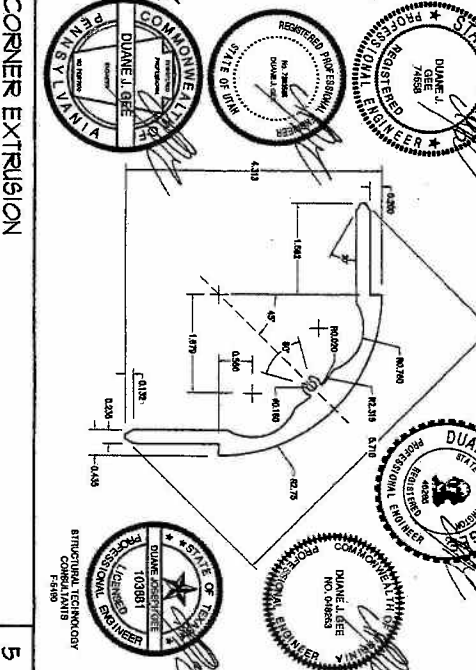
SIGN ELEVATION AND SCHEDULE



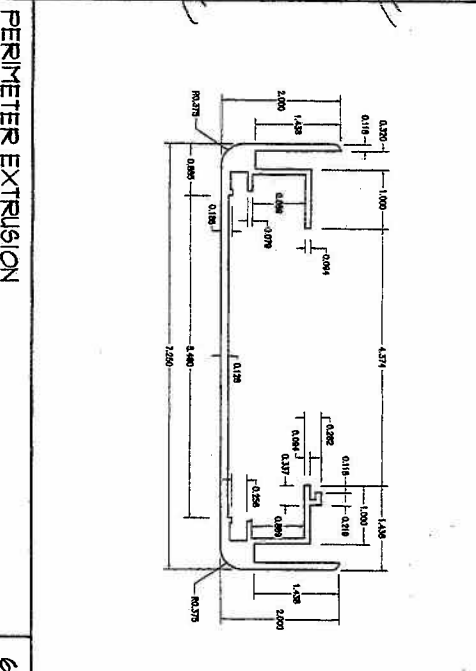
SIGN SCHEDULE

SIGN TYPE	SIGN SIZE (MM)	L (INCHES)	ANGLE SIZE*	NO. OF ANCHORS**	ANCHOR INTO CONCRETE	ANCHOR INTO CHU
A	1'-6"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
B	1'-6"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
C	1'-6"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
D	1'-6"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
E	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
F	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
G	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
H	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
I	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
J	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
K	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
L	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
M	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
N	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
O	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
P	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
Q	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
R	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
S	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
T	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
U	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
V	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
W	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
X	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
Y	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
Z	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
AA	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.
BB	2'-0"	6	1/2"	4	4" x 6" HLTI K82-12 W/ 2" TIN EMBED.	4" x 6" HLTI K83 W/ 2 1/2" TIN EMBED.

CORNER EXTRUSION



PERIMETER EXTRUSION



WALL MOUNT SIGN

SIGN NAME
ADDRESS
CITY, STATE

DATE: 04-28-11
JOB NO.: 488-724
DESIGNED BY: DMH
DRAWN BY: DMH
APPROVED BY: DMH

SHEET 9 OF 18

STRUCTURAL TECHNOLOGY CONSULTANTS INCORPORATED
858.278.2400
7827 CONVOY COURT, SUITE 408 SAN DIEGO, CA 92111

SIGNTRONIX
1445 W. SEPULVEDA BLVD. TORRANCE CA. 90509
(310) 534-7600

REVISION BY DATE
DH 04/28/11