JAY PAUL
COMPANY

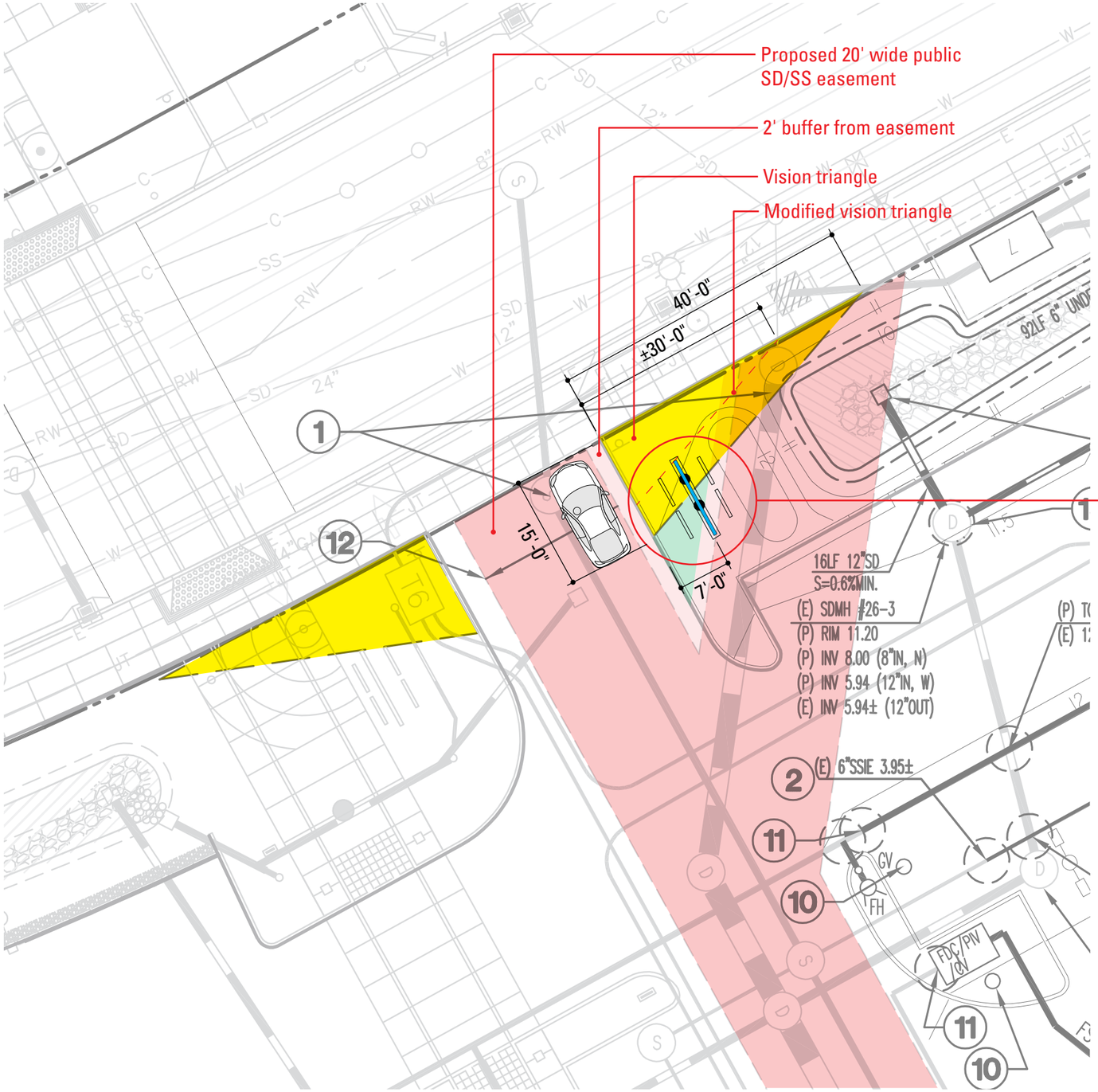
MOFFETT PLACE

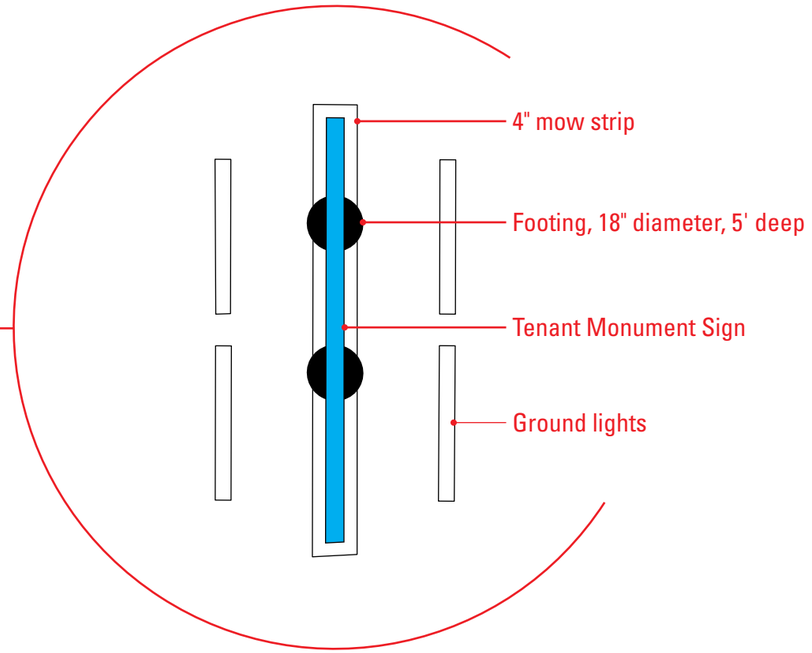
Signage Master Plan
September 5, 2014

Variance
September 29, 2015

Kate Keating Associates Inc.
Environmental Graphic
Design Consultants

DES
ARCHITECTS
ENGINEERS





B4 MONUMENT LOCATION

Scale: 1/16" = 1'-0"

SULLAWAY ENGINEERING
10815 Rancho Bernardo RD., SD, CA 92127
projectmanager@sullawayeng.com
Phone: 858-312-5150 Fax: 858-777-3534

PROJECT: MOFFETT, SUNNYVALE, CA — DATE: 8/26/15
PROJ. NO.: 8109A-1 — ENGINEER: RS
CLIENT: ARROW SIGN COMPANY

V2.9 building code; CBC 2013 — units; pounds, feet unless noted otherwise

Applied Wind Loads; from ASCE 7-10

$F=q_z*G*C_f*A_f$ with $q_z = 0.00256K_zK_{zt}K_dV^2$ (29.3.2 & 29.4)

C_f= 1.425 (Fig. 29.4-1) max. height= 5.0
K_{zt}= 1.0 (26.8.2) (=1.0 unless unusual landscape)
K_z= from table 28.3-1 Exposure= c
K_d= 0.85 for signs (table 26.6-1)
V= 115 mph
G= 0.85 (26.9) weight= 0.340 kips
s/h= 1.000 M_{DL}= 0.00 k-ft
B/s= 1.50

Pole Loads	structure component	height at section c.g.	K_z	q_z	pressure q_z*G*C_f	A_f	shear	Wind Moment M_W
	1	2.5	0.85	24.46	29.63	34.0	1007	2518
					sums:	34.0	1007	2.52 (M_w) k-ft arm= 2.5
	for s/h=1, add 10% (asce fig. 29.4-1):				x 1.10			2.77

P_u= 0.41 kip M= 2.77 k-ft $M=\sqrt{(M_{DL}^2+M_w^2)}$

$M_u=\sqrt{(1.2M_{DL}^2+1.0M_W^2)}$ = 3 k-ft

Pole Design — section; pipe

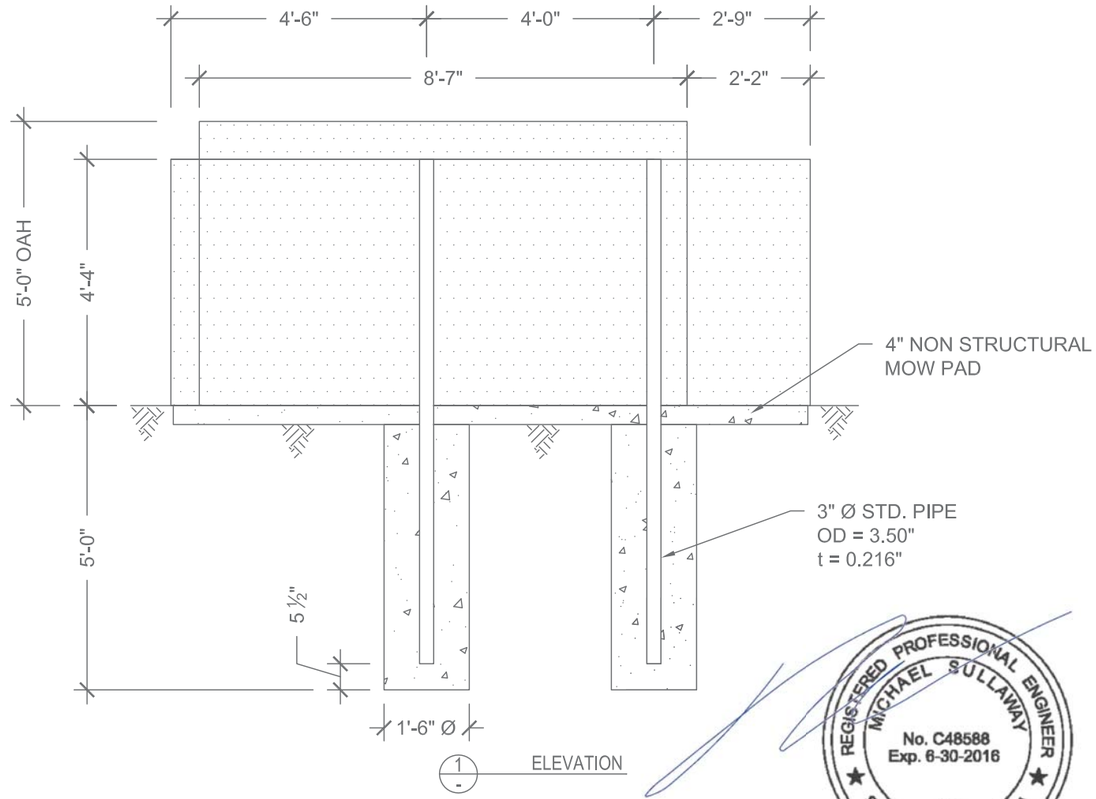
$M_u \geq \phi M_n$ with $M_n = f_yZ$ f_y= 35 ksi ϕ= 0.9

H	M_u(k-ft)	Z req'd. (in)	Size(in)	t (in)	Z	USE
at grade	2.8	1.06	2.5	0.203	1.4	**3" STD. PIPE, ϕMn = 5.75 k-ft**

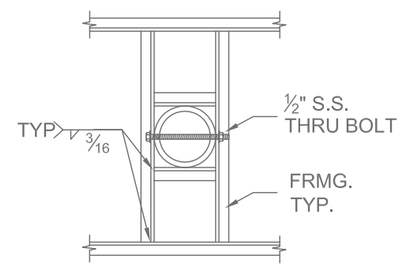
Footing Design — footprint: round

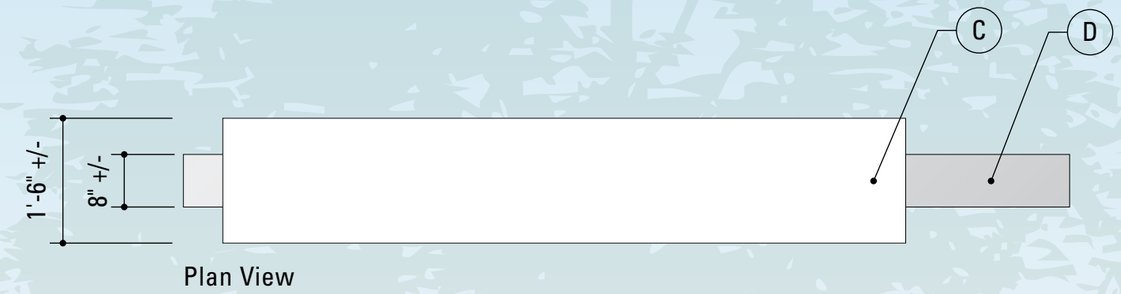
ω= 1.3 (CBC 1605.3.2) CBC Table 1806.2, sections 1806.3.4, 1807.3.2
P= 0.79 kip S1 = S x d / 3 A = 2.34 x P / (S1 x b) S= 267
S1= 415 d =0.5xA (1+ (1+4.36x h/A) ^.5) CBC 1807.3.2.1
A= 2.95

footing: **1' - 6" dia.**
4' - 8" deep

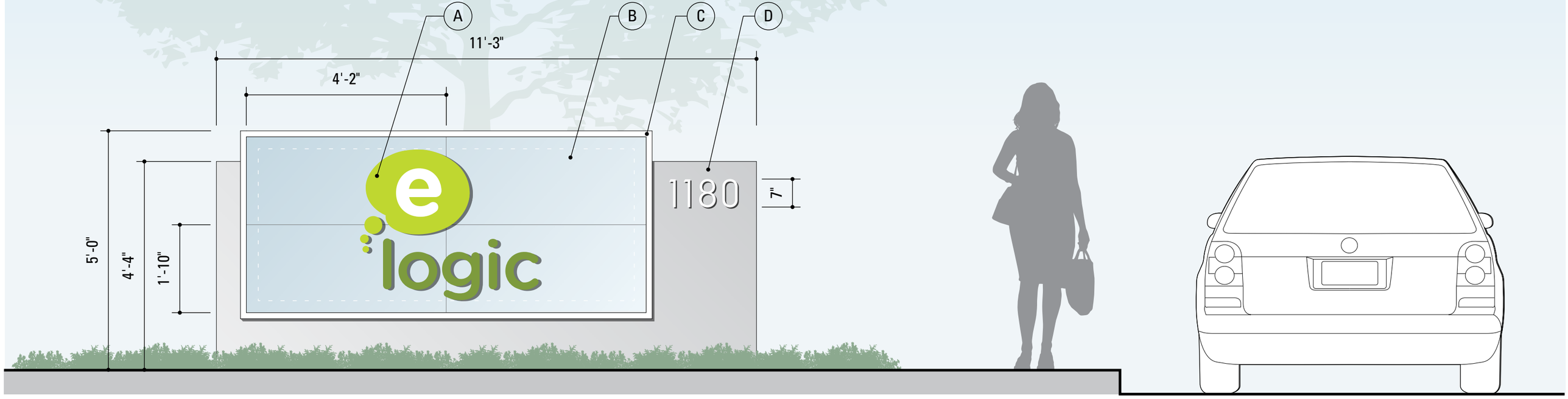


GENERAL NOTES
1. DESIGN CODE: CBC 2013
2. DESIGN LOADS: ASCE 7-10
3. WIND VELOCITY 115 MPH EXPOSURE C
4. CONCRETE 2500 PSI MINIMUM
5. PIPE STEEL ASTM A53 GR. B, F_y=35 KSI MIN.
6. BOLT STEEL ASTM A307
7. LATERAL SOIL BEARING PER CBC CLASS 5 (100 PSF/FT)
8. PROVIDE PROTECTION AGAINST DISSIMILAR METALS





Plan View



Tenant Monuments
These monuments are placed at building driveways off of Borregas, Bordeaux, and Mathilda. This sign offers tenants occupying two or more floors identity along the street and assists in visitor wayfinding. (56 sq. ft. per side)

A. Logos are 1" thick acrylic permanently adhered to the glass panel (3/4" or 1/2" acrylic may be considered if logo will benefit from thinner material). All exposed surfaces of logos painted tenant's brand colors.
B. Tenant panels are clear glass (or acrylic) backpainted white to match building curtain wall.
C. Aluminum frame painted white.
D. Aluminum sign cabinet painted silver to match building mullions with footing as required. Concrete mow-strip to be included.

Maximum tenant name cap height to be 2 ft. In the multi-tenant configuration, as shown on page 2.07, the size of the tenant area on the sign may result in the tenant name cap height being less than 6", per the branding standards of individual tenants.

TENANT MONUMENT: ONE TENANT

Scale: 1/2" = 1'-0"