Date:	7/22/25	City, State:	Cameron, NC	SHEET: 1 OF 4
Client:	Lauretano Sign Group	Overall Height:	12'-0"	SHEET: 1 OF 4 Sean M. McFarland, P.E.
Sign:	Scooters Coffee #33843	Wind Speed	120 mph	McFarland Engineering

Sign Description 130 Brandywood Ct Table of Contents

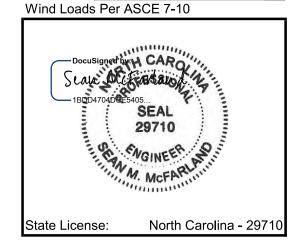
Structural Variables and Code Loading Specifications

Cabinet Type:	Miscellaneous	
Structural Section:	Tube Steel - 46000psi	•
Number of Zones:	7	•

Code:	2015 IBC / 2018 NC State	•
Wind Speed:	120	-
Wind Exposure:	C	•

Sign Sections:

Zone	Cabinet Wt.		Cabinet Wt. Weight Per Sq. Ft.		Weight	Transition (Y or N)
1	20	•	19.0 #/FT	(1 01 11)		
2	0	-	19.0 #/FT			
3	20	-	19.0 #/FT	NOTICE TO CONTRACTOR As established and surpry sile some IF Cauthing Cubins units surpry to the surprise are distribution. Reviewed for Code		
4	0	-	19.0 #/FT	O7/30/2025 Harnett		
5	15	-	19.0 #/FT	NOTITI CHIOCIAN		
6	0	•	19.0 #/FT			
7	35	•	19.0 #/FT	у		
8	0	-				



Geometry:

	Тор		* Approx. Width			Approx.
Zone	Elevation	Height	Width	Pressure	Force	Weight
1	12.00 FT	6.00 FT	5.36 FT *	28.74 PSF	0.93 K	758 #
2	6.00 FT	0.17 FT	14.00 FT *	21.56 PSF	0.05 K	3 #
3	5.83 FT	2.00 FT	4.67 FT *	27.84 PSF	0.26 K	225 #
4	3.83 FT	0.17 FT	14.00 FT *	21.56 PSF	0.05 K	3 #
5	3.66 FT	0.91 FT	2.33 FT *	26.94 PSF	0.06 K	49 #
6	2.75 FT	0.17 FT	1.00 FT *	21.56 PSF	0.00 K	3 #
7	2.58 FT	2.58 FT	6.18 FT *	26.05 PSF	0.41 K	607 #

Total Wind Force = 1.76 K 1,648 #

Date:7/22/25City, State:Cameron, NCSHEET:2 OF 4Client:Lauretano Sign GroupOverall Height:12'-0"Sean M. McFarland, P.E.Sign:Scooters Coffee #33843Wind Speed120 mphMcFarland Engineering

130 Brandywood Ct

ME Job: 71756

Moments at Transitions:

	Lateral	7	
Zone	Force	Mom. Arm	
1	0.93 K	9.00 FT	
2	0.05 K	5.92 FT	
3	0.26 K	4.83 FT	
4	0.05 K	3.75 FT	
5	0.06 K	3.21 FT	
6	0.00 K	2.67 FT	
7	0.41 K	1.29 FT	
		10.81 K-FT	

Section Properties: 4.27 IN³ .00 IN³ .00 IN³ .00 IN³ .00 IN³ .00 IN³

Structural Sections to be used:

		Tube					
Zone	Option	Dim.	Wall t.	Weight	Sxx	d/t	Sxx Req'd
7	Tube	6.00 IN	0.250 IN	19 #/FT	9.49 IN^3	24.00	4.27 IN^3

Structure Required

#		Wall
Req'd	Size	Thickness
1	6.00 IN	0.250 IN

Date: 7/22/25		City, State:	Cameron, NC		SHEE	T: 3 OF 4
Client: Lauretano Sign	Group	Overall Height:	12'-0"		Sean M. M	cFarland, P.E.
Sign: Scooters Coffee	#33843	Wind Speed	120 mph		McFarlan	d Engineering
•	130 Brandywood Ct					-
Baseplate Design -		A36 Steel	Fy= 36ksi			
D =	6.00 IN	E70 Electrodes	Fw= 928 #/in/1	16th		
e =	1.50 IN	A307 A.B.'s	Ft=20 ksi			
b =	6.00 IN	# of Bolts =	4	Dia. Bolt	0.8	75
d =	6.00 IN	Column Mom =	10,805 #-FT			
Baseplate t =	1.00 IN					
P Bolt =	M * 12 (in/ft)			7,627 #	<	12,000 #
	2 bolts (D + e + t)	_				
t req'd =	[(6*P*e* 2 bolts)/(.75	* Fy (D+2*t))] ^1/2	2	.797 IN	<	1.00 IN
Weld =	M * 12 (in/ft)			2.91 16th	's < (2)	3.00 16th's
	Fw (b*d + D^2/3)	_				
	•					

USE: (4) 7/8" Dia. Bolts w/ 1" Baseplate. Weld to Support with (2) 3/16" Fillet Welds.

Date:7/22/25City, State:Cameron, NCSHEET: 4 OF 4Client:Lauretano Sign GroupOverall Height:12'-0"Sean M. McFarland, P.E.Sign:Scooters Coffee #33843Wind Speed120 mphMcFarland Engineering

130 Brandywood Ct

ME Job: 71756

SPREAD FOOTING DESIGN One Spread Footing

Loads: P(DL) = 1,648 # P(LL) = 0 #

M(WL) = 10,805 FT-#

Footing: CONCRETE WIDTH = 7.00 FT

LENGTH = 5.00 FT DEPTH = 2.00 FT

WEIGHT = 10,500 LBS

SURCHARGE PEDESTAL = 7.00 FT X

5.00 FT X

0.00 FT (Zero Soil Surcharge)

WEIGHT = 0 LBS

Overturning: OTM = 10,805 FT-LBS

RM = 30,370 FT-LBS

FS = 2.811 >1.5 THEREFORE OK

Soil Pressure: q(DL+LL) = 47.09 PSF NET

q(ALLOW) = 1500 PSF OK

FOR DL+WL:

e=M/P = 0.89 FT

L/6 = 0.83 FT (Resultant Outside Middle 3rd)

q(DL+WL) = 418.36 PSF NET

q(ALLOW)= 2000 PSF OK

Reinforcing: M(DL+LL)= 147 FT-LBS/FT

0.75 * M(DL+WL) = 674 FT-LBS/FT DL+WL CONTROLS

DL+WL CONTROLS

ASSUME: f'c=3000 PSI, Fy=40000 PSI (minimal)

d= 20.63 IN

As(REQ'D)= 0.02 IN^2 As(PROV.)= 0.31 IN^2

USE #5's AT 12" O.C. T&B, EACH WAY

ME #: 71756





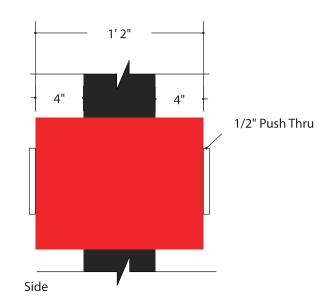
1" Aluminum Angle Frame .063" Thk. Aluminum Skins 1/8" Thk. Aluminum CAD-CUT Faces. 3/4" Thk. Acrylic Push-Through Letters 1/8" Thk. Acrylic Backer *Illumination* White LEDs Class II Power Supply

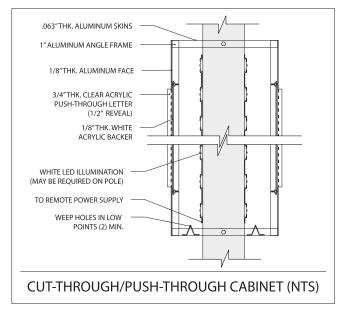
COLORS

Skins & Faces painted to match Tomato Red (230-43), PMS 1788C Clear Acrylic Push-Through Letters White Acrylic Backer

NOTES

Sign will have it's own dedicated curcuit to be on when store is open







SCOOTERS COFFEE 33843

Address: 130 BRANDYWOOD CT

City/State: CAMERON, NC

Client: LAURETANO SIGN GROUP

ENGINEERING OF VERTICAL SUPPORT AND FOUNDATION ONLY. NO CABINET ENGINEERING PROVIDED OR IMPLIED.

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Initial Drawing:

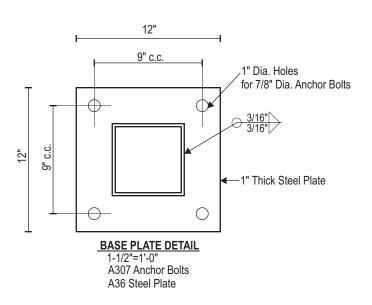
(71756) DS

NC Firm Registration: F-1136 North Carolina License Number: 29710 North Carolina Expiration Date: 12/31/2025

Date: 7-22-2025 Sheet #: 2 OF 4



ME #: 71756



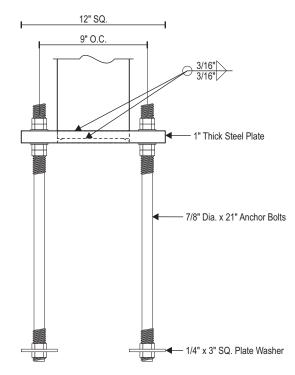


PLATE DETAIL A307 Anchor Bolts A36 Steel Plate

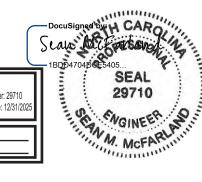


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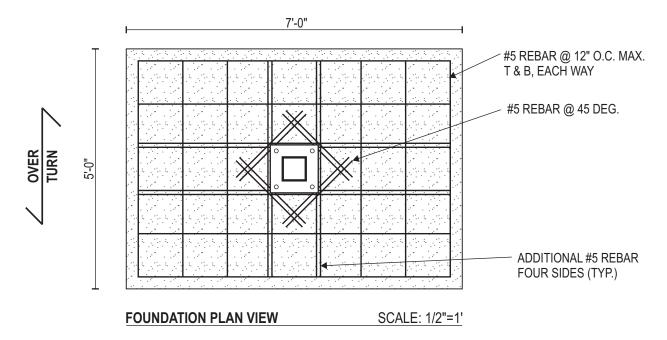
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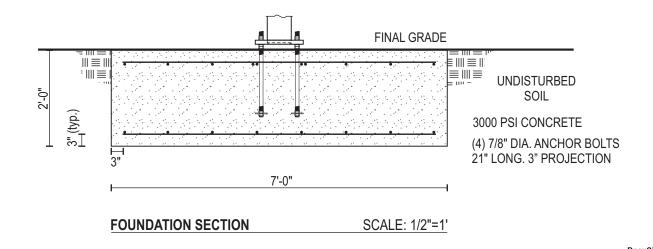
NC Firm Registration: F-1136 North Carolina License Number: 29710 North Carolina Expiration Date: 12/31/2025

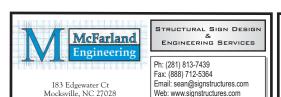
Date: 7-22-2025 Sheet #: 3 OF 4



ME #: 71756







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NC Firm Registration: F-1136 North Carolina License Number: 29710 North Carolina Expiration Date: 12/31/2025

Sheet #: 4 OF 4

Date: 7-22-2025

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