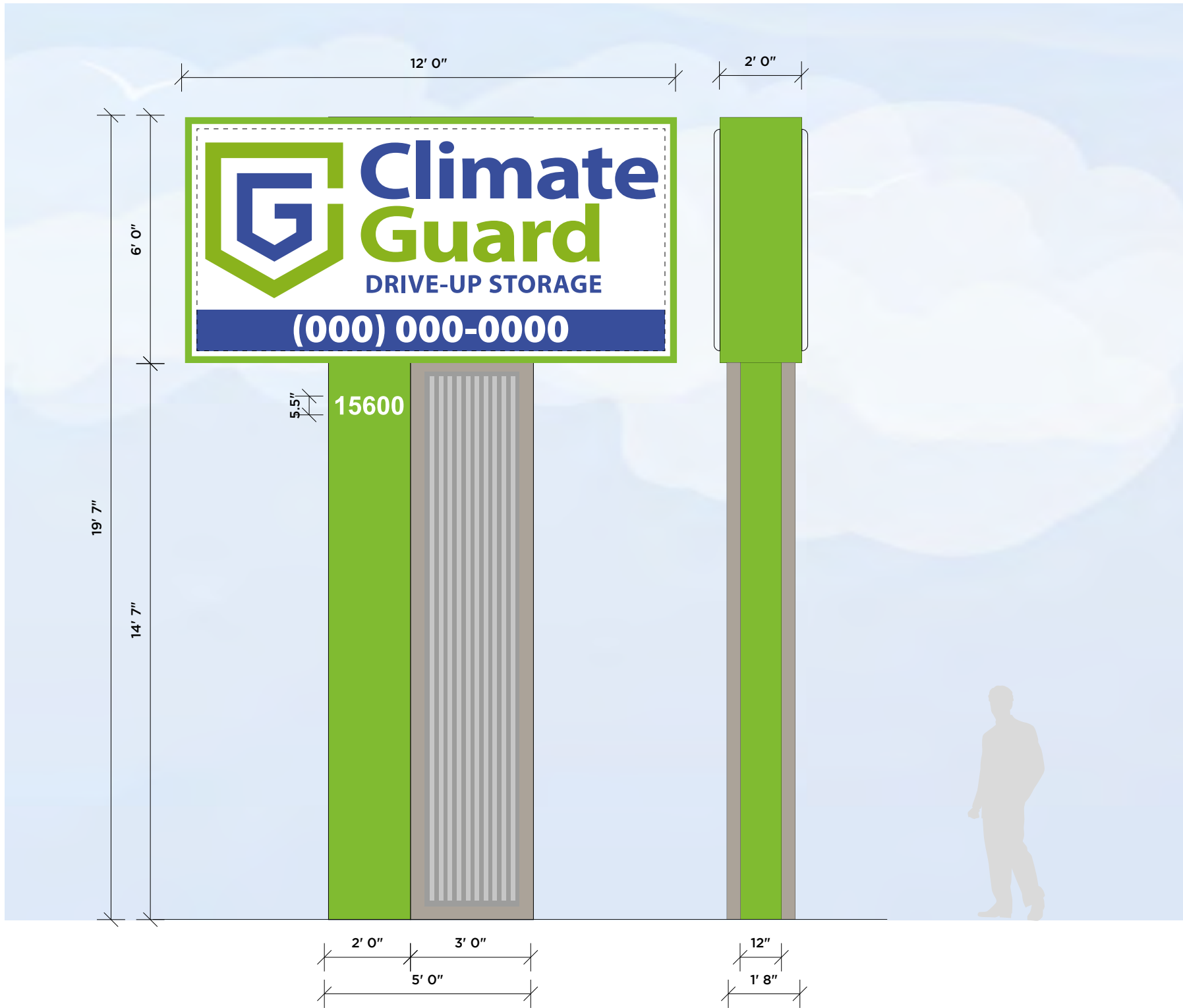


CLIMATE GUARD/MULTI SIGNS

SIGN CABINET_OVERVIEW

SIGN PLACEMENT



LOCATION:



FACE COLORS:



WHITE



3M 3630 - 157 SULTAN
BLUE PMS 287C



3M 3630-106 BRILIANT
GREEN PMS 368C

DIMENSIONS

AREA

140"(W) x 68"(H)
66.1 SQ FT

NIGHT VIEW



CONTRACTOR:
Keith Chapman
keith@kenkris.com
321.987.5338
www.KenKris.com

CUSTOMER:
CLIMATE GUARD
559 Tamiami Trail,
Port Charlotte, FL

DESCRIPTION:

Pylon sign double-sided with aluminum sign cabinet with pan face and 3/8" FCO acrylic address letters stud mounted flush.



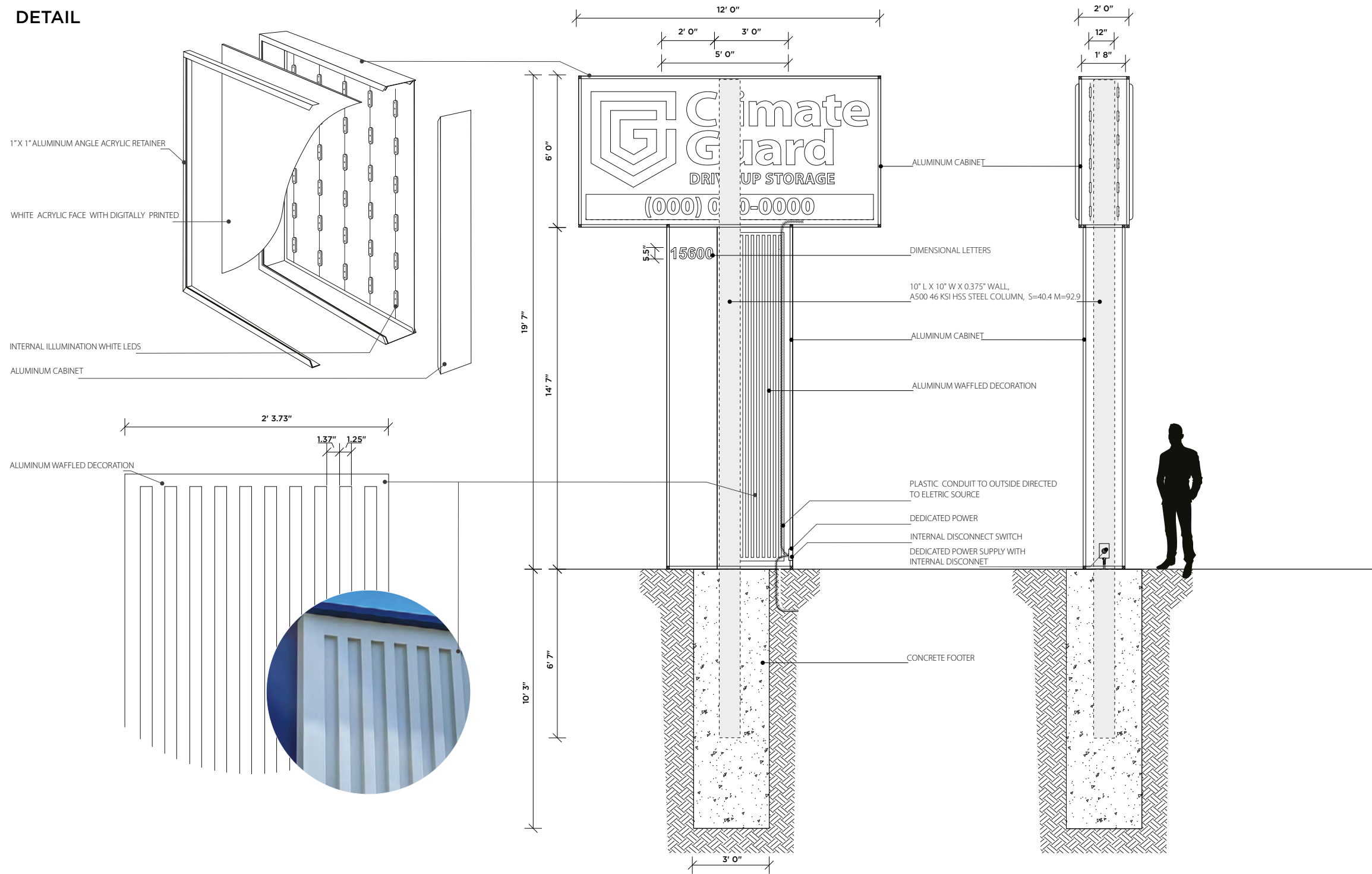
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ACCORDANCE WITH UL STANDARD
FOR ELECTRIC SIGNS INSTALLED
USING UL LISTED PARTS AND
METHODS OF INSTALLATION.

KenKris Marketing Group

PYLON_OVERVIEW

TECHNICAL DRAWING

DETAIL



LOCATION:



DIMENSIONS

AREA

144"(W) x 235"(H) x 24"(D)

FACE COLORS:



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CLIMATE GUARD/MULTI SIGNS
PYLON_OVERVIEW

TECHNICAL INFORMATION

Technical drawing of a Climate Guard sign structure showing front and side views with dimensions (144" width, 24" depth, 235" OAH height). Includes a map of the location at 559 Tamiami Trail, Port Charlotte, FL. The drawing also features a detailed table of wind load calculations and structural specifications.

Florida, FBC 8th Ed (2023), Sect 1609 wind	
ref ASCE 7-22	
160	Wind Speed, Vult, mph, from ASCE 7-22, Figure 26.5
II	Risk Category, I, Low; II, Normal; III, Substantial Hazard; IV, Essential/Critical
C	Wind Exposure, C, House size obstructions for > 600 ft; D, no obstructions > 5000 ft

Presumptive soil type							
WIND LOAD CALC: ASCE 7-22 Section 29.3.1, Solid Freestanding Signs							
Terrain Kzt=1, no hill, ridge, or escarpment >15' high; Directionality Kd=0.85; Gust G=0.85 rigid structure; Kz=2.01*(H/900)^(2/9.5)ExpC, (700&11.5)ExpD; qh,ult=0.00256*Kz*Kd*Vult^2; load = 0.6W+D, D ≤ 15 psf							
A	B	C	D	E	F	Sign Segment ID	OAH&D
19.6	13.6					Segment Top Above Grade, Top, ft	19.6
12.0	5.0					Segment Width, W, ft	7.1
6.0	13.6					Segment Height, H, ft	19.6
72.00	67.92					Segment Area, ft², adjusted for grade offset	
0.898	0.849					Velocity Pressure Exposure Coeff; Kz	
50.0	47.3					Velocity Pressure, qh,ult, psf (per segment)	
1.80	1.58					Force Coefficient, Cf (per segment)	1.67
76.5	63.6					Wind Pressure, Pult, psf = qh,ult*G*Cf	
45.9	38.2					Wind Pressure, Pseg, psf = Pult * 0.6	
3.3	2.6					Wind Force, Fseg, kips = Pseg*Areaseg	
54.8	17.6					Wind Moment Mseg, kip*ft = Fseg*(Topseg+Hseg/2)	

Total Shear at Grade, V = Sum (Fseg)	
grade = 0 ft	530 kip
12.27888	724 kip.ft

Total Moment at Grade, M = Sum(Mseg)	
grade = 0 ft	530 kip
12.27888	724 kip.ft

Sign manufacturer/installer's design, detailing, fabrication, and erection shall conform to the following specifications: Building Code, ASTM specifications, ACI-318 for reinforced concrete, American Welding Society Code for Welding in Building Construction, AISC Specification for Design, Fabrication, and Erection of Structural Steel for Buildings.

Materials of construction: (Unless noted otherwise)

- Structural steel (angles, shapes, plates, gussets): ASTM A-36, Fy=36 ksi.
- HSS steel tubing: A-500, Grade B, Round Fy=42ksi; Rectangular Fy=46ksi.
- Structural aluminum tubing: 6061-T6, or equivalent, Fy = 18 ksi at weld.
- Structural pipe: A-53, Grade B, Type E or S, Fy=35 ksi.
- Anchor bolts: ASTM F1554 Grade 36 with heavy hex at bottom, not "L" or "J" bolts.
- Connection bolts: A-325, snug tight.
- Rebar: ASTM 615, #6 or larger - Grade 60, #5 or smaller - Grade 40, 3" cover.
- Concrete: 2500 psi, 28 days.
- Provide coatings to prevent any possibility of corrosion.
- Welding design and fabrication according to AWS D1.1 (steel) or AWS D1.2 (aluminum).
- AWS certification required for all structural welders.
- Use D1.1 (steel) or D1.2 (aluminum) certified weld with same bending strength as column UNO.
- Embedded column acts as vertical reinforcement for drilled and cube foundations.
- Soil bearing capacity is Section 1806.2 Presumptive Load Bearing Value. Lateral bearing is doubled for sign poles per 1806.3.4. Soil choice types per Table 1806.2. Soil type must be applicable for entire foundation. Flat level grade and unsaturated soil matching presumptive soil type must be verified by sign installer.

Code Section 1807.3.2					
laterally unconstrained at grade					
6.7	3.0	4.0	5.0	Diameter, b, ft (or length and width of cube)	6.5
6.7	10.3	9.2	8.5	Depth, D, ft	D = 0.5*A{1+[1+(4.36*Hcent/A)]^0.5}
2.2	4.5	3.8	3.3	A term	A = 2.34*F/(S1*b)
665	1028	920	844	S1 or S3	S1 = 2*Ssoil*D/3
				150 psf/ft	Ssoil for Sand, silty sand, clayey sand, silty gravel, clayey gravel

Spread Foundation	
Q psf for Sand, silty sand, clayey sand, silty gravel, clayey gravel = 2000	
10.0	Length, L, ft
10.0	Width, W, ft
2.2	Depth, D, ft
2678 Soil Bearing at Bottom of Fdn, Qbot, psf, Qbot = 1.3*(Q+100pcf*(D-1))	
33.0 Total Weight, Wt, kips, Wt = L * W * D * .15 kips/ft3	
2.5 Toe Length, Toe, ft, Toe = Wt / (W * Qbot)	
4.2 Bearing Eccentricity, e, ft, e = L / 2 - Toe / 3	
91.9 Overturning Capacity Calc, OT, kip.ft, OT = Wt / e / 1.5 safety	

Spread Foundation (Long is perpendicular to face)

10' long x 10' wide x 2' deep

#5, 12" OC each way, 2 mats, 3" from top and bottom, gentle bend around column

Weld 4' long 4" x 4" x 3/8" angle to bottom and side of column with 3/8" fillet weld all around

UNO, in 2500 psi or higher concrete, embed support columns, anchor bolts, and/or vertical rebar to 6" from bottom in drilled shaft and cube foundations, and to 3" from bottom in spread foundations.

Drilled Shaft Foundation

3' dia x 10.5' deep

or 4' dia x 9.5' deep

or 5' dia x 8.5' deep

Cube Foundation

6.7' cube, L=H=D

LOCATION:



DIMENSIONS

AREA
144"(W) x 235"(H) x 24"(D)

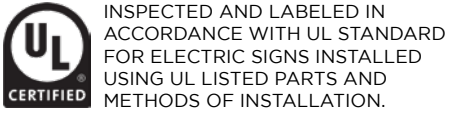
FACE COLORS:

- WHITE
- 3M 3630 - 157 SULTAN BLUE PMS 287C
- 3M 3630-106 BRILIANT GREEN PMS 368C
- SW 7024 FUNCTIONAL GRAY

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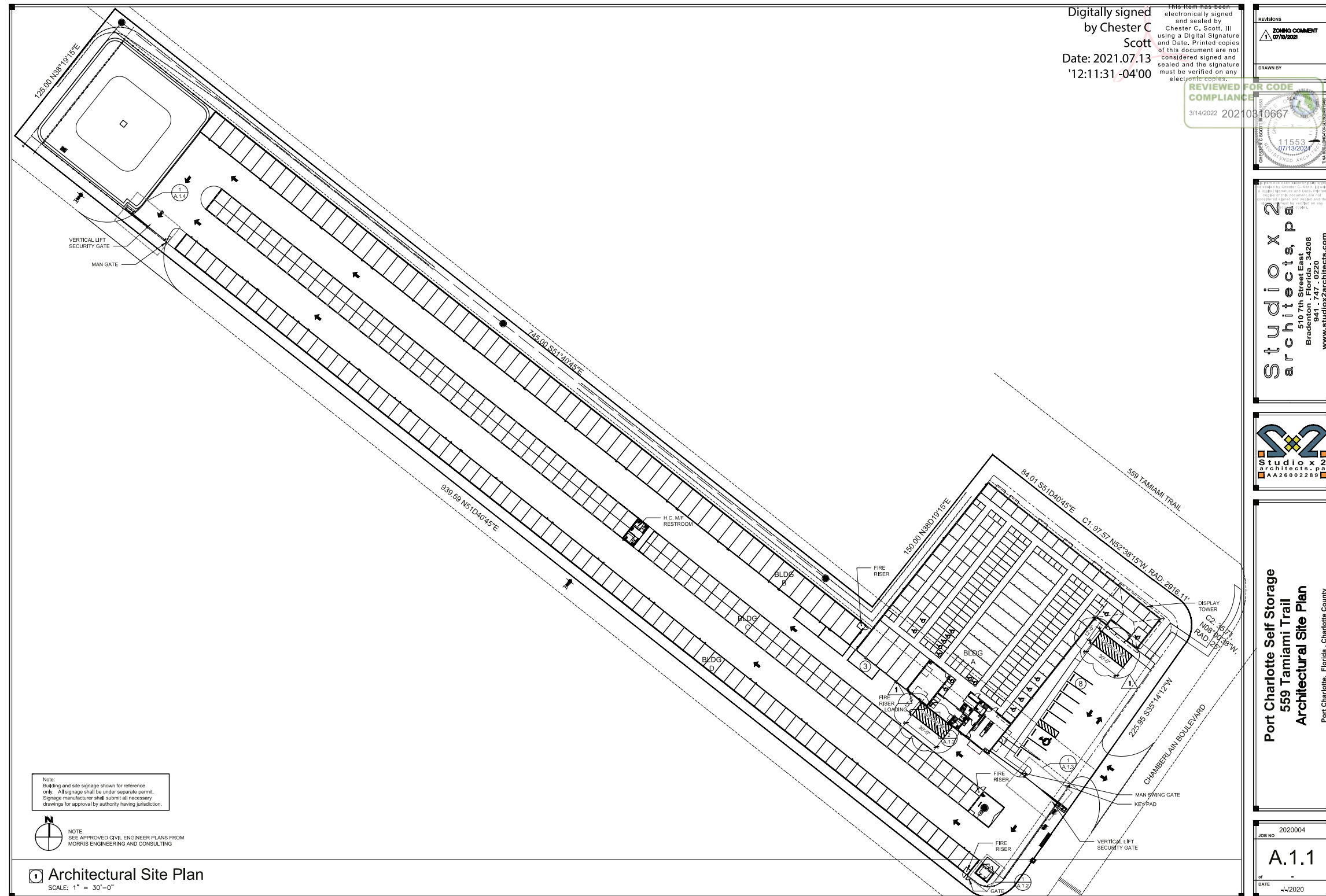
CUSTOMER:
CLIMATE GUARD
559 Tamiami Trail,
Port Charlotte, FL

DESCRIPTION:
Pylon sign double-sided with aluminum sign cabinet with pan face and 3/8" FCO acrylic address letters stud mounted flush.



CLIMATE GUARD/MULTI SIGNS

SITE PLAN_OVERVIEW



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