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Christian Langley
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CHRISTIAN LANGLEY
PE
FLORIDA PROFESSIONAL ENGINEER

**Gainesville
NEON
AND Signs**

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Gainesville, FL 32609
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VERSION: 4
6/22/2025

DRAWN BY: Summer Shepherd

REVISED BY:

Sheet:
20943

Project: Belmont Academy

1200 N Federal Hwy, #200
Boca Raton, FL 33432
1-888-371-3113

Christian Langley
Florida PE #67382
Cert of Auth #31124

TORNADO LOADS:
Design for Tornado
Loads is NOT Required

WIND LOADS
(ASCE 7-22)
• V=140 mph • Risk Category 3 Struct. • Sign Height = 15 ft max • Solid freestanding sign at grade:
• Exposure 'C' • ASD Load Coeff = 0.6 • Kzt=1.0, Kd=0.85, G=0.85 • Cf=1.55 (w/h ratio ≥ 1/2) • ±28.7 psf

92.00"

20.02"

28.00"

8.00"

74.10"

88.00"

GRADE

Custom Aluminum Cap

Aluminum structure
14" deep

1/4" ACM pin mounts

2' x 6' LED message center,
2" recessed top & bottom
for ventilation.

MIN 4" SCH 40 STEEL POST (A53/B),
EMBED TO 6" FROM FOOTER BOTTOM

CONCRETE FOOTER OPTIONS (2500 PSI):
• 24" DIA x 5'-3" DEEP [AUGERED]
• 3'-6" SQ x 2'-0" DEEP [SPREAD, WITH
(4) #5 BARS EACH WAY, TOP+BOT]

ARTWORK APPROVAL: _____

SIGNATURE: _____ DATE: _____

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General • Design is in accordance with the requirements of the **Fla Bldg Code 8th Ed (2023)** for use within & outside the High Velocity Hurricane Zone (HVHZ). • This engineering certifies only the structural integrity of those systems, components, and/or other construction explicitly specified herein. • Electrical notes, details, & specifications are provided by and are the sole responsibility of the electrical contractor. No electrical review has been performed and no certification of such is intended. • Structural design meets requirements of ACI 318-19, AISI 360-16, ADM1-20, & NDS-18, as applicable. • Steel components shall be coated, painted, or otherwise protected against corrosion per FBC Sec 2203.2/2222.6. • Alum components in contact with steel or embedded in concrete shall be painted or protected as prescribed in ADM1-20(1a), or plastic/neoprene spacers provided. • All exposed fasteners shall be S.S. or have a protective coating for corrosion protection. • All welding shall comply with AWS requirements. • Steel welds: E70xx electrodes. • Aluminum welds: 4043 filler alloy. • Alum extrusions: 6063-T6 or stronger, U.N.O.K.