Job name

TA Truck Service (signs B and C)

Job#

3421DS

Sign company:

Dowling Signs

Installation location:

I-75 and HWY-41, Lake City, FL 32025

Section 3107 and 1609 of Florida Building Code 2020 and Chapter 30 ASCE 7-16 applies. Application of wind pressures using the alternative all heights method for components and cladding

Type of structure:

wall mounted lighted cabinet sign

Occupancy Category:

Wind velocity (3 sec gust), FBC 2020, section 1609.3:

130

mph

Wind pressure (qz)

43.3

psf

Net Pressure Coeficient (Cnet) from Figure 30.7-2

Components and cladding not in areas of discontinuity - walls and parapets -1.09

Wind Pressure

-47.2psf

Wind load applied between wall and structure, pulling structure away from wall Load carried by tension in fasteners connecting structure to wall

- maximum height of structure to be attached	4.00	ft
- maximum width of structure to be attached	18.17	ft
- effective projected area factor	1.00	
- projected area of each component to be attached	72.7	ft^2
- wind load	-3430	lbs
- allowable tension load per fastener to	250	lbs
- even number of fasteners minimum of 2 =	-14	
- number of fasteners practically required due to structure shape	14	
- weight of structure is approximately	291	lbs
- allowable shear load per fastener to	125	lbs
- average shear load per fastener =	20.8	lbs

References:

ASCE 7-16

The 7th Edition (2020) of the Florida Building Code

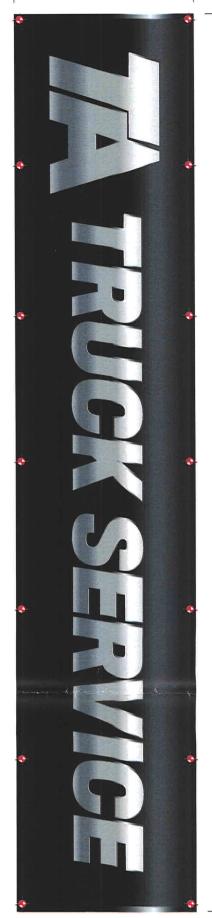




sheet: 4 of 4

John J. Orlando PE LLC 0044089 165 Old Ridge Road Macon, GA 31211 (478) 731-5394 jjorlando@cox.net

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48"



Scale: 3/4" = 1-0

SCOPE OF WORK:

MANUFACTURE AND INSTALL (1) NEWS/F ILLUMINATED CABINET

GENERAL SPECIFICATIONS:

CABINET,

STRUCTURE: 1 1/2" x 1 1/2" x .1875" ALUM. ANGLE FRAME BUILT IN TWO PIECES TO BE JOINED IN FIELD BY WELDED CAPTURE NUTS & 3/8" Ø HARDWARE. OUTSIDE FRAME: FLAT BLEED RETRO FRAME WITH BLEED FRAME COVER, SUPPORTED BY FRAME BRACE WITH PIANO HINGE ON TOP OF CABINET SKIN: .125" ALUMINUM FACE: WHITE FLEXIBLE SUBSTRATE FACE WITH 1ST SURFACE DIGITAL GRAPHICS. FACE TO BE STRETCHED IN SHOP AND RELEASED FROM ONE SIDE FOR SHIPPING.

COL

PAINT,

INTERIOR: TO BE PAINTED SPRAYLAT L.E.P.

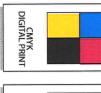
EXTERIOR: PAINT TO MATCH MATTHEWS BLACK, SEMI-GLOSS FINISH.

ILLUMINATION: WHITE LED'S & POWER SUPPLIES AS REQUIRED FOR PROPER ILLUMINATION.

ATTACHMENT: FLUSH MOUNT TO WALL WITH 3/8" Ø MIN. ALL THREAD. INTERIOR FRAME TO

ALUM. WELDED CAPTURE NUTS FOR ATTACHMENT, 14 EVENLY SPACED PLACES, PRECISE FASTENER LOCATIONS * BY INSTALLERS

















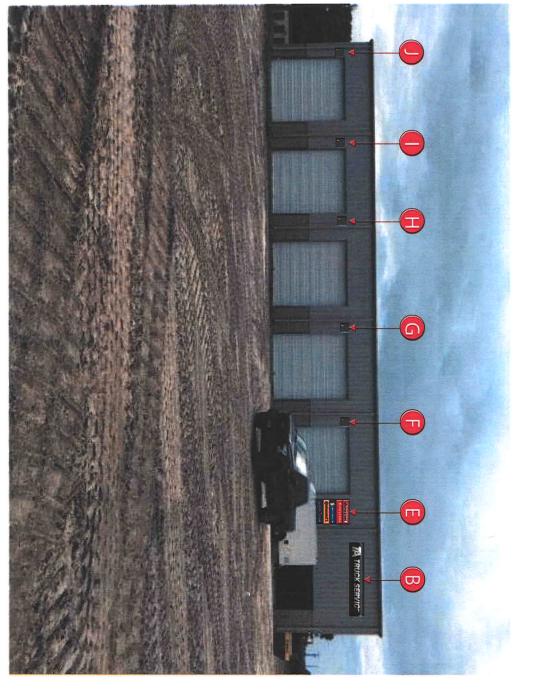
Conforms to the requirements of the 7th Edition (2020) of the Florida Building Code sections 1609 and 3107, V(ult) = 130 mph, Exposure category = C, Risk category = II John J. Orlando PE LLC - 165 Old Ridge Road - Macon, GA 31211 - 478 731 5394 - jjorlando@cox.net - Florida registration # 0044089 job 3421DR sheet 1 of 4



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3/8" DIA. HILTI HLC SLEEVE ANCHOR	3/8" DIA. HILTI HIT ROD WITH Hy20 ADHESIVE	3/8" DIA. HILTI HIT ROD WITH Hy20 ADHESIVE	3/8" DIA. HILTI HIT ROD WITH HY150 MAX ADHESIVE	3/8" RED HEAD L.D.T. (LARGE DIAMETER TAPCON)	3/8" DIA. THREADED ROD	3/8" DIA. THREADED ROD & BEARING PLATES	3/8" LAG & SHIELD	3/8" SNAP TOGGLE	3/8" LAG SCREW	FASTENER SCHEDULE
FOR USE WITH CONCRETE, MASONRY AND BRICK EMBED A MIN. OF 3 3/8"	FOR USE WITH CONCRETE BLOCK, EMBED A MIN. OF 2"	FOR USE WITH MASONRYAND BRICK EMBED A MIN. OF 3 3/8"	FOR USE WITH CONCRETE, EMBED A MIN. OF 2"	FOR USE WITH CONCRETE BLOCK, BRICK OR CONCRETE, EMBED A MIN OF 2 1/2*	FOR USE WITH WOOD, CONCRETE BLOCK OR EIFS WALL SYSTEMS	FOR USE WITH WOOD, CONCRETE BLOCK OR EIFS WALL SYSTEMS	FOR USE WITH WOOD OR EIFS WALL SYSTEMS. 1-1/2" MIN PENETRATIONS (EXCL. TIP)	FOR USE WITH WOOD OR STUCCO WALL SYSTEMS. 1-1/2" MIN PENETRATIONS (EXCL. TIP)	FOR USE WITH WOOD OR EIFS WALL SYSTEMS. 1-1/2" MIN PENETRATIONS (EXCL. TIP)	HEDULE

PHOTO SURVEY OF EXISTING Scale: Not to Scale TORG * NOTH No 0044089 OF OF CONTRACTOR OF THE PROPERTY OF THE PROPER

> PHOTO SURVEY OF PROPOSED (ENTRANCE) Scale: Not to Scale



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STATE OF

4081

18038 NW 246th ST. High Springs, FI., 32643 Phone 386-201-0819 Fax 386-201-0820 www.dowlingsigns.com

PHOTO SURVEY OF EXISTING
Scale: Not to Scale

No 0044089

State OF 107

PHOTO SURVEY OF PROPOSED (EXIT)
Scale: Not to Scale



Conforms to the requirements of the 7th Edition (2020) of the Florida Building Code sections 1609 and 3107, V(ult) = 130 mph, Exposure category = C, Risk category = II John J. Orlando PE LLC - 165 Old Ridge Road - Macon, GA 31211 - 478 731 5394 - Jjorlando@cox.net - Florida registration # 0044089 job 3421DR sheet 3 of 4

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