REPROPIL EXISTING PYLON IACE 5

3.45 W Duval SI CAR WASH 745 -

INITIAL LAYOUT

Lake City, FL 32055

EVISIONS

Upumawien Labordaries inc.

N/A Replacing Existing Signage Allowance: Sq. Ft. Signage:



Color Key:

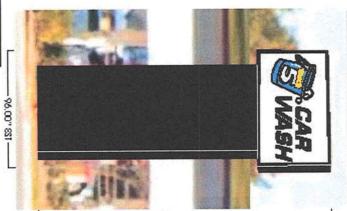
PROOF PHASE 1

PN/57691C PNS 2191 C

PMS 107C

Block

72.00



IMPOSED IMAGERY 240.00" EST

## CABINET REPLACEMENT SPECIFICATIONS

PANELS

See above Quantity:

As in drawing Vinyl Colors: As in drawing Face Color

As in drawing Face

Flat (Retrott As needed Into existing cabinet Mounting

## SPECIFICATIONS

LED RETROFII TOP CABINET

ESTIMATED 10 Quantity: Material:

36" LED RetroSticks

Mounting:

Into existing sockets & rewired

Owner/Landlord Approval ,

\*RETROFIT TO LED BULBS (RETROFIT AS NEEDED)
\*PAINT EXISTING POLES AND CABINETS BLACK

\*EXISTING CONDITIONS YARY & MAY AFFECT COST DUE TO SIZE, MATERIAL, QUANTITY, INSTALLATION, SCOPE, ETC. \*REPLACE CABINET PANELS (RETROFIT AS NEEDED)

EXISTING CONDITIONS

SIGNS UNLIMITED

6801 Mount Hermon Church Rd, Ste C, Durham, NC 27705 . (P) 919-552-8689 (F) 919-557-1322

RETROFIT EXISTING PYLON G

345 W Duval St CAR WASH 코 슈

NITIAL LAYOUT

Lake City, FL 32055

SNOWN

U) Underwiers Laboratories inc.•

N/A Replacing Existing Signage Allowance: Sq. Ft. Signage:



Color Key:

PROOF

PHASE 1

PNS 2191 C

PMS 107 C PMS 7691 C

置

72.00

IMPOSED IMAGERY

PROVE AND DISPOSE OF EXISTING SKINAGE
AND BAC, AS WELL AS PARTING
W CLEEN/GC PROF TO INSTALLATION —

-96.00" SI \_\_\_\_ 240.00" EST

## CABINET REPLACEMENT **SPECIFICATIONS**

PANELS

See above Quantity

As in drawing As in drawing Face Color

As in drawing Vinyl Colors:

Flat (Retrott As needed) into existing cabinet Mounting

## SPECIFICATIONS

LED RETROFII TOP CABINET

ESTIMATED 10 Quantity:

36" LED RetroSticks Material

Into existing sockets & rewired

Owner/Landlord Approval \_

PAINT EXISTING POLES AND CABINETS BLACK

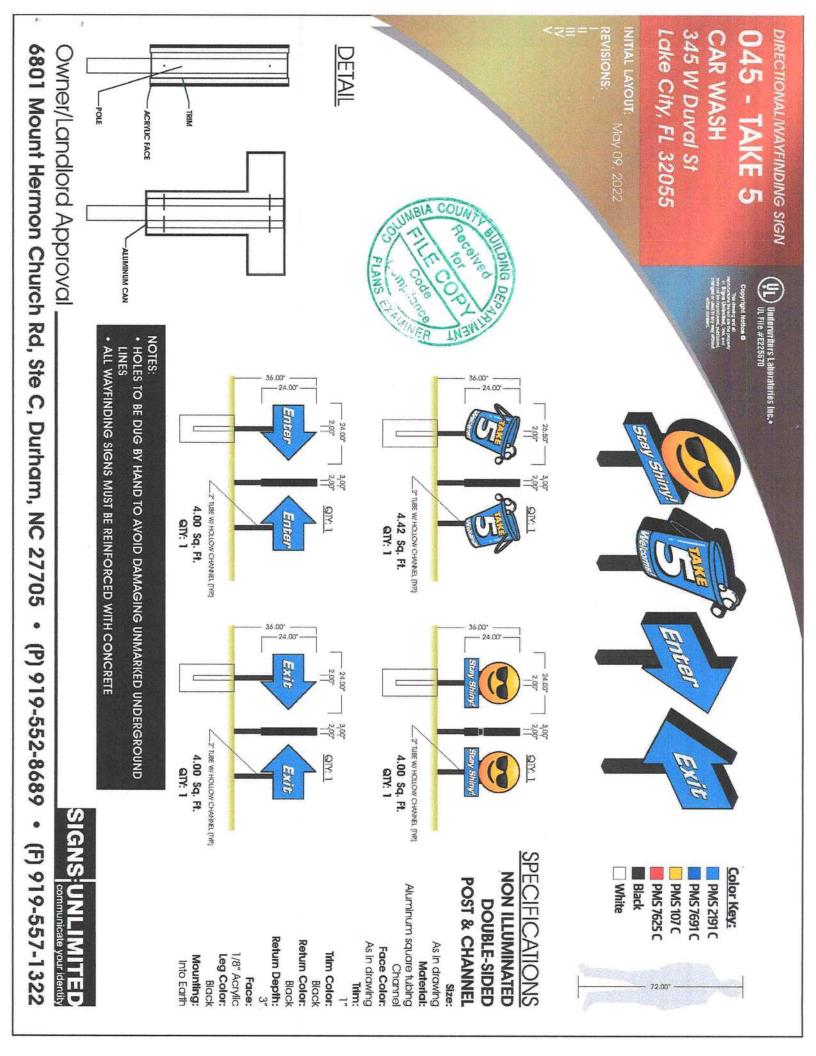
•RETROFIT TO LED BULBS (RETROFIT AS NEEDED)

\*EXISTING CONDITIONS YARY & MAY AFFECT COST DUE TO SIZE, MATERIAL, QUANTITY, INSTALLATION, SCOPE, ETC \*REPLACE CABINET PANELS (RETROFIT AS NEEDED)

EXISTING CONDITIONS

SIGNS UNLIMITED

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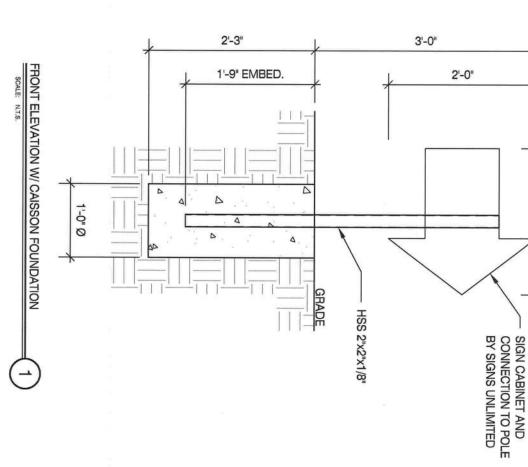
6801 Mount Hermon Church Rd, Ste C, Durham, NC 27705

(P) 919-552-8689

(F) 919-557-1322







lase Elev

V./V.

M,/M

1,/1,

P,/P.

P-M P-M-V-T

Status

UPPORT POLE DESIGN SUMMARY

Wind Load Criteria Wind Speed, V

ASCE 7-16 120 mph

Directionality Factor, K<sub>d</sub> <sup>(2)</sup> Topography Factor, K<sub>1</sub> Base Pressure, y(q,/K<sub>d</sub>

0.85 1.0 18.8 psf

Natural Frequency, n, 12.87 Hz
Gust Effect Factor, G
Ss
Ssf ASD Wind Load Factor, y (2) 0.6
E: (1) Loading volues in chart below are based upon av

calculated on hidden sheet using derived V-M equations. Chart is provided for information purposes only. (2) Wind directionality ( $K_a$ ) factor is 0.95 for Single Pole (Round) segments instead of 0.85. The  $C_f$  value

average  $K_{\perp}$  values for each segment. Actual values are

Deflection Limit
Deflection at 0.7\*W

H/60 0.04 in H/873

\* 120 MPH WIND SPEED, EXP. C

\* RISK CATEGORY II

\* 2020 FLORIDA BUILDING CODE 7TH ED.

\* CLIENT - SIGNS UNLIMITED

\* (1) POLE, (1) FOOTING

**Deflection Ratio** 

from Fig. 6-21 has been increased by 0.95/0.85 to account for this (3) Wind pressures listed below have already been multiplied by t

xposure Category Nind Pressure Override per

0 psf

o. of Poles

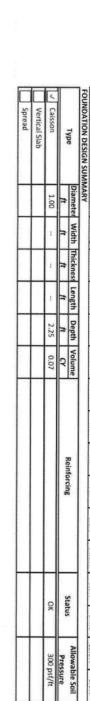
Type

Height

Width

Top Elev.

\*



CALCULATIONS INCLUDE THE FOLLOWING CONSIDERATIONS
AS OUTLINED IN THE 2020 FLORIDA BUILDING CODE (7th ED.):
CHAPTER 16-LOADS AND FORCES
CHAPTER 17-SPECIAL INSPECTIONS
CHAPTER 19-SOILS AND FOUNDATIONS
CHAPTER 19-CONCRETE
CHAPTER 20-ALLOWINUM
CHAPTER 21-MASONRY
CHAPTER 23-TIEBL
CHAPTER 23-WOOD
\*ALL SIGNS SHALL BE COMPLIANT WITH CURRENT NEC CODES\* NOTES

2-0

1.) SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAILS AND DIMENSIONS.

SIGN CABINET AND CONNECTION BY SIGNS UNLIMITED.

SETII SETII NOTERIS

DATE: 09/27/22 DATE DRAWING NO. DWG. S

BUS. LIC. # AA26000828 ENG. C.O.A. # 29794 CORP. LIC. # F02000002650 COMM. NO. 220149.164

DRAWN BY: DEW MST

CHECKED BY:

299 N. WEISGARBER RD. KNOXVILLE, TN 37919

345 West Duval Street, Lake City, Florida, 32055

MBI COMPANIES INC.

PROJECT:

PHONE 865.584.0999 SIGN-ENGINEER.COM

TAKE

S

DRAWING TITLE:

GROUND SIGN DESIGN SPECIFICATIONS:

1. REFER TO SIGN COMPANY'S DRAWINGS FOR MORE DETAILS. ALL DESIGNS,
DETAILING FABRICATION AND CONSTRUCTION SHALL CONFORM TO: 2020 FLORIDA BUILDING CODE 7TH ED. AMERICAN WELDING SOCIETY 2'-2 1/2" CALCULATIONS INCLUDE THE FOLLOWING CO AS CUTLINED IN THE 2020 FLORIDA BUILDING CHAPTER 16-LOADS AND FORCES CHAPTER 17-SPECIAL INSPECTIONS CHAPTER 18-SOILS AND FOUNDATIONS CHAPTER 19-CONCRETE CHAPTER 20-ALUMINUM CHAPTER 22-STEEL CHAPTER 23-WOOD CHAPTER 21-MASONRY ALL SIGNS SHALL BE COMPLIANT WITH CURRENT NEC CODES\* IG CODE (7th ED.): NOTES BY SIGNS UNLIMITED.

1.) SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAILS AND DIMENSIONS.

2.) SIGN CABINET AND CONNECTION

2020 FLORIDA BUILDING CODE 7TH ED. CLIENT - SIGNS UNLIMITED

\* RISK CATEGORY II

\* 120 MPH WIND SPEED, EXP. C

(1) POLE, (1) FOOTING

ASD Wind Load Factor, y (3) Natural Frequency, n; Gust Effect Factor, G 0.005 12.87 Hz 0.85 0.6 eflection at 0.7\*W values for each segment. Actual values are 0.04 in H/873

2020 Florida B ASCE 7-16 120 mph

0.85 1.0 18.8 psf

Notes

0 psf

calculated on hidden sheet using derived V-M equations. Chart is provided for information purposes only. (2) Wind directionality ( $K_{\alpha}$ ) factor is 0.95 for Single Pole (Round) segments instead of 0.85. The  $C_{\gamma}$  value from Fig. 6-21 has been increased by 0.95/0.85 to account for this variation. (3) Wind pressures listed below have already been multiplied by the ASD Wind Load Factor,  $\gamma$ .

Type Required Strength Values (ASD) Height Width Area al base reactions based upon V-M equations Allowable Strength Values (ASD) Interaction Ratios Trib. Status

rtical Slab	isson	Туре		ATION DESIGN SUMMARY	HSS2X2X1/8	Section	
	1.00	ft .	Diameter	MARY	00		
	:	ft	Width		Strong		CEXM
	1	ft	Thickness Length		Strong 0.1	kips	٧,
	t	11	-		0.2	kip-ft	M,
	2.25	ft	Depth		0.0	kip-ft	1,
	0.07	CY	Depth Volume		0.1	kips	.7.
					7.1	kips	Vc
			Soint		1.3	kip-ft	M <sub>c</sub>
		- Acini			1.1	kip-ft	1,
		Reinforcing			12.7	kips	7.
					1.5%	٧,/٧	
					14.9%	M/Mc	
		Status			3.9%	1,/1,	
	OK				0,4%	P,/P,	
	300	Pre	Allowab		15.3%	IAI-A	0 24
	300 psf/ft	wable Soil ressure			12.7 1.5% 14.9% 3.9% 0.4% 15.3% 0.0%	V,/Vc M,/Mc T,/Tc P,/Pc P-M P-M-V-T	
_	_	_	_		-1	-	-

1'-9" EMBED 2'-0" Cam enter 1'-0" Ø A GRADE HSS 2"x2"x1/8" CONNECTION TO POLE BY SIGNS UNLIMITED SIGN CABINET AND Wind Load Criteria
Wind Speed, V
Exposure Category
Wind Pressure Override per
Jurisdiction Requirement Base Elev UPPORT POLE DESIGN SUMMARY DMETRY INPUT

13 12 1 1 O

98499489

STD. STEEL PIPE SECTION: ASTM A53 GRADE B (Fy=35 KSI), U.N.O.

CONCRETE: 2500 PSI @ 28 DAYS

OCAL BUILDING CODES & ORDINANCES

STEEL PIPE SECTION (> 20" Ø): ASTM A252 GRADE 3 (Fy=42 KSI MIN.) U.N.O.

WELDERS SHALL BE CERTIFIED FOR THE TYPE OF WELDING. ADEQUATELY BRACE POLE(S) UNTIL CONCRETE HAS SET UP FOR 14 DAYS. EXCAVATION SHALL BE FREE OF LOOSE SOIL BEFORE POURING CONCRETE FRONT ELEVATION W/ CAISSON FOUNDATION

THIS ENGINEER DOES NOT WARRANT THE ACCURACY OF DIMENSIONS GROUT UNDER BASE PLATES WITH NON-SHRINK GROUT 20.

ENGINEERED EARTH.

FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D

698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE. THE SOIL

BEARING CAPACITY IS TO BE VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR

TO CONSTRUCTION. IF ALLOWABLE BEARING AND/OR LATERAL PRESSURE IS

ENGINEER SHOULD BE CONTACTED FOR RE-EVALUATION.

LESS THAN THE ABOVE ASSUMED AND/OR CALCULATED PRESSURES, THE

ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR

TWO TIMES THE TABULATED CODE VALUES.

SHORT TERM LATERAL LOADS SHALL BE PERMITTED TO BE DESIGNED USING DEPTH. ISOLATED LATERAL BEARING FOUNDATIONS FOR SIGNS NOT ADVERSELY AFFECTED A  $1/2^{\circ}$  MOTION AT THE GROUND SURFACE DUE TO

2'-3"

19.

16.

WELDING ELECTRODES: E70XX

WITHOUT THE ENGINEER'S APPROVAL.

ASSUMED HORIZONTAL (PASSIVE PRESSURE) ASSUMED AT 150 PSF/FT OF

ALLOWABLE SOIL BEARING PRESSURE ASSUMED: 2000 PSF

15.

NO FIELD HEATING FOR BENDING OR CUTTING OF STEEL SHALL BE ALLOWED

THE CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE MEANS & METHODS

OF CONSTRUCTION IN REGARDS TO JOBSITE SAFETY.

PROVIDE A MINIMUM OF THREE INCHES OF CONCRETE COVER OVER

STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES & PLATES ASTM A36

3'-0"

REINFORCING: GRADE 60 ASTM A615

ANCHOR BOLTS: ASTM F1554 GRADE 36 U.N.O. (ALTERNATES GRADE 55 & 105)

HSS SQUARE/RECTANGULAR SECTION: ASTM A500 GRADE B (Fy=46 KSI)

HSS ROUND SECTION: ASTM A500 GRADE B (Fy=42 KSI) U.N.O.

W SHAPES: ASTM A992 (Fy = 50 KSI)

CONNECTION BOLTS: ASTM A325

THREADED RODS: ASTM A193 GRADE B7

14.

EMBEDDED STEEL.

25. FURNISHED BY OTHERS.

26 ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL PAINT TO INHIBIT CORROSION

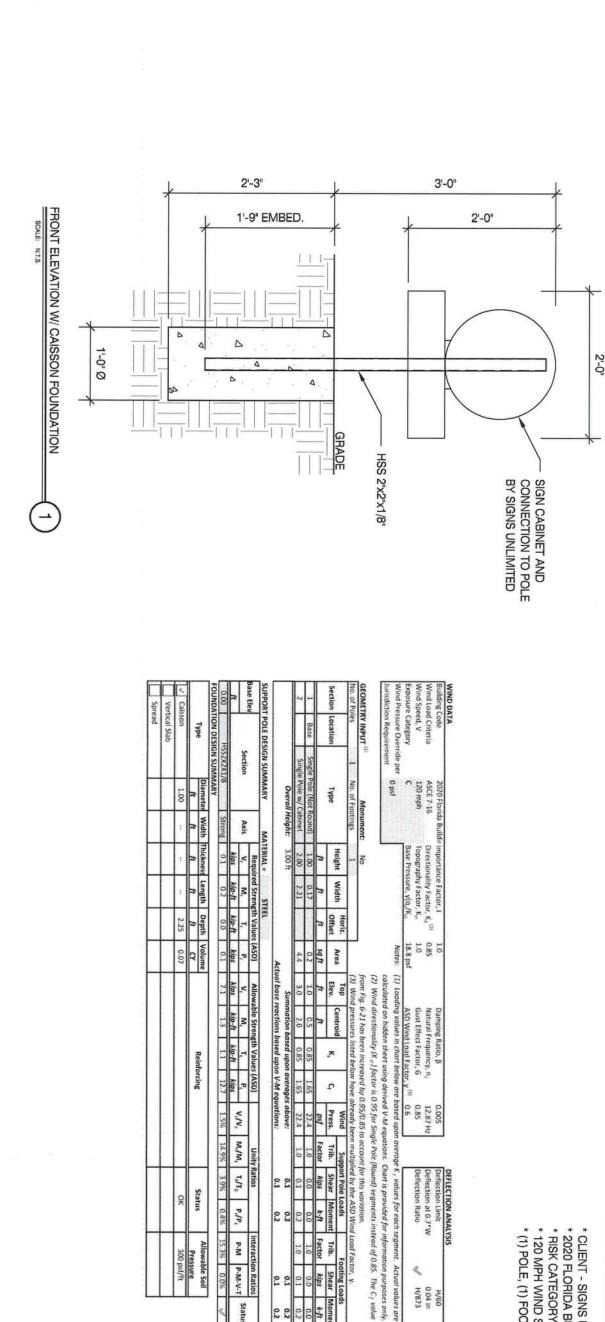
27 THIS DESIGN IS FOR THE INDICATED ADDRESS ONLY, AND SHOULD NOT BE ENGINEER USED AT OTHER LOCATIONS WITHOUT WRITTEN PERMISSION OF THE

28. DESIGN OF DETAILS AND STRUCTURAL MEMBERS NOT SHOWN, BY OTHERS

299 N. WEISGARBER RD. KNOXVILLE, TN 37919 MBI COMPANIES INC. PHONE 865.584.0999 SIGN-ENGINEER.COM 345 West Duval Street, Lake City, Florida, 32055 DRAWING TITLE: TAKE S

DRAWN BY: DEW CHECKED BY: BUS. LIC. # AA26000828 ENG. C.O.A. # 29794 CORP. LIC. # F02000002650 220149.164 DATE: 09/27 DATE 22 DRAWN BY DRAWING NO. DWG. ω

COMM. NO.



P-M P-M-V-T

Status

Allowable Soil

Trib.

H/60 0.04 in H/873

CALCULATIONS INCLUDE THE FOLLOWING CONSIDERATIONS
AS OUTLINED IN THE 2020 FLORIDA BUILDING CODE (7th ED.):
CHAPTER 18-LOADS AND FORCES
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\*ALL SIGNS SHALL BE COMPLIANT WITH CURRENT NEC CODES\*

NOTES

1.) SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAILS AND DIMENSIONS.

SIGN CABINET AND CONNECTION BY SIGNS UNLIMITED.

\* RISK CATEGORY II
\* 120 MPH WIND SPEED, EXP. C
\* (1) POLE, (1) FOOTING

\* CLIENT - SIGNS UNLIMITED

\* 2020 FLORIDA BUILDING CODE 7TH ED.

DRAWING NO. DARREN S. ANTLE, 4/18/ P.E. LIC # 76813

S

PROJECT:

345 West Duval Street, Lake City, Florida, 32055 DRAWING TITLE:

299 N. WEISGARBER RD. KNOXVILLE, TN 37919

MBI COMPANIES INC.

PHONE 865.584.0999 SIGN-ENGINEER.COM

TAKE

ENG. C.O.A. # 29794

DRAWN BY: DEW

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COMM. NO.

DATE:

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MST

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BUS. LIC. # AA26000828

CORP. LIC. # F02000002650

DWG.

