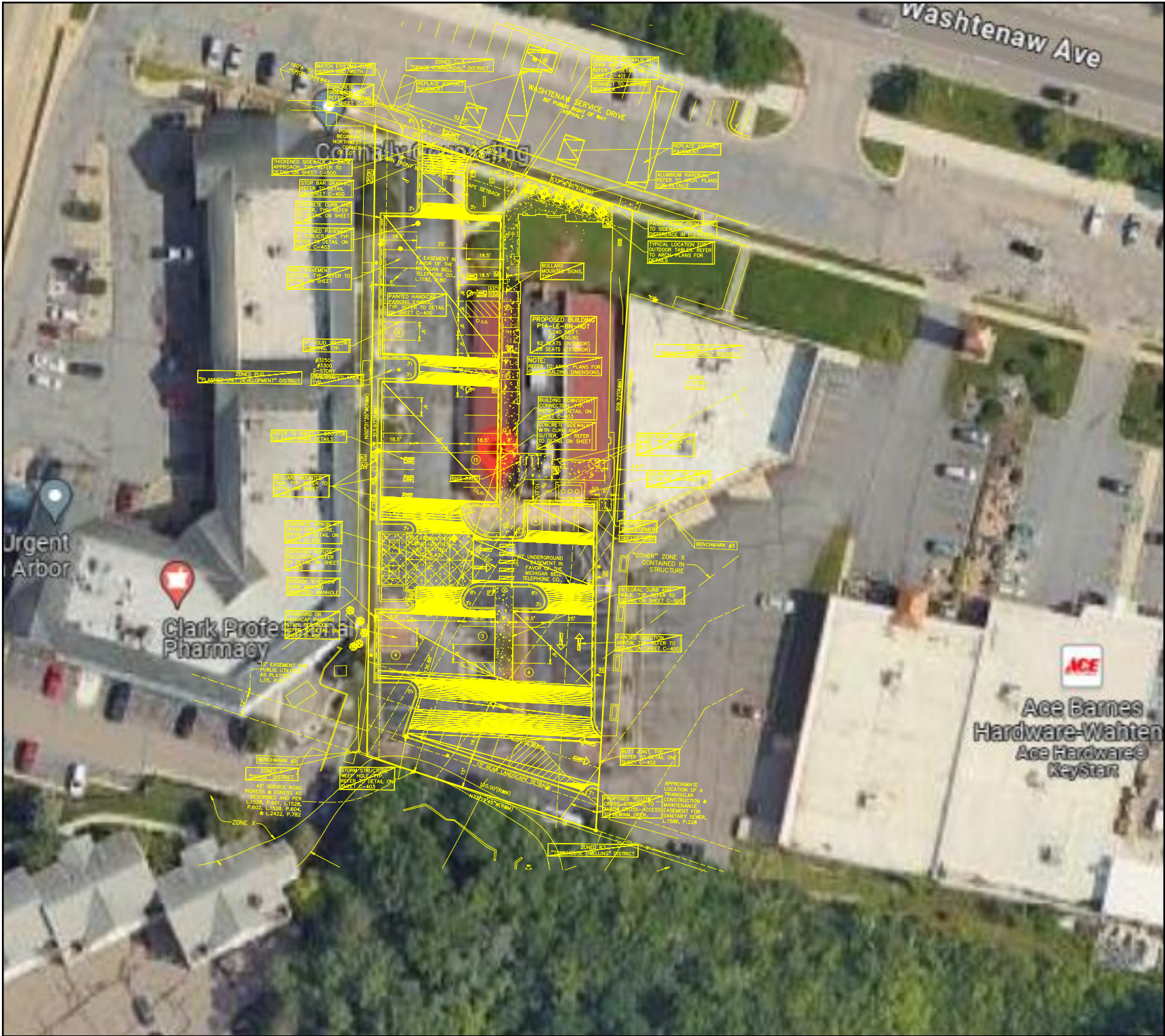


VICINITY MAP

N.T.S.



AERIAL VIEW

ROGER GHANTOUS - 613-889-8135

[RGhantous@pattisonid.com](mailto:RGhantous@pattisonid.com)

BRIAN HEAD - 210-349-3804

[BHead@pattisonid.com](mailto:BHead@pattisonid.com)



Design #

0629178AR7

Sheet

1 of 28

Client

#5391

Address

3310 WASHTENAW AVE,  
ANN ARBOR, MI

Account Rep.

ROGER GHANTOUS  
BRIAN HEAD

Designer

ANGELICA

Date

04/16/2024

Approval / Date

Client

Sales

Estimating

Art

Engineering

Landlord

Revision/Date

R1(06/10/2024)AM: UPDATED ICON SIGN TO SCRIPT IN ARTWORK. RELOCATED FLAGPOLE LOCATION. ADDED VESTIBULE DOOR VINYL "ORDER" AND "PICK UP"  
R2(07/24/2024)AM: UPDATED SP. FLOOR PLAN AND ELEVATIONS  
R3(08/19/2024)AM: ADDED BLADE SIGN Q TO SCOPE  
R4(08/22/2024)AM: UPDATED SIGN J1-2 TO BRONZE PANELS  
R5-REDTAG(01/24/2025)AM: UPDATED SPECS PER MARKED REDTAG  
R6(02/21/2025)AM: ADDED STAMPED ENGINEERING FOR SIGN A  
R7(02/27/25)LL: UPDATED N3 TO Q2. ADDED STAMPED ENGINEERING FOR CL. ADDED DOOR VINYL TO FRONT ELEVATION

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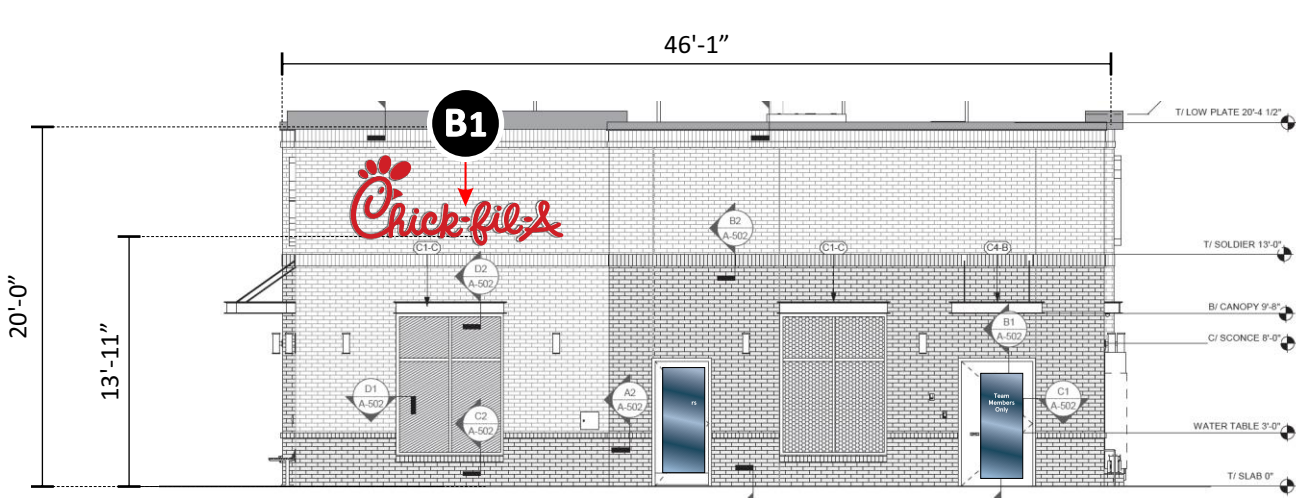
Chick-fil-A

AERIAL VIEW







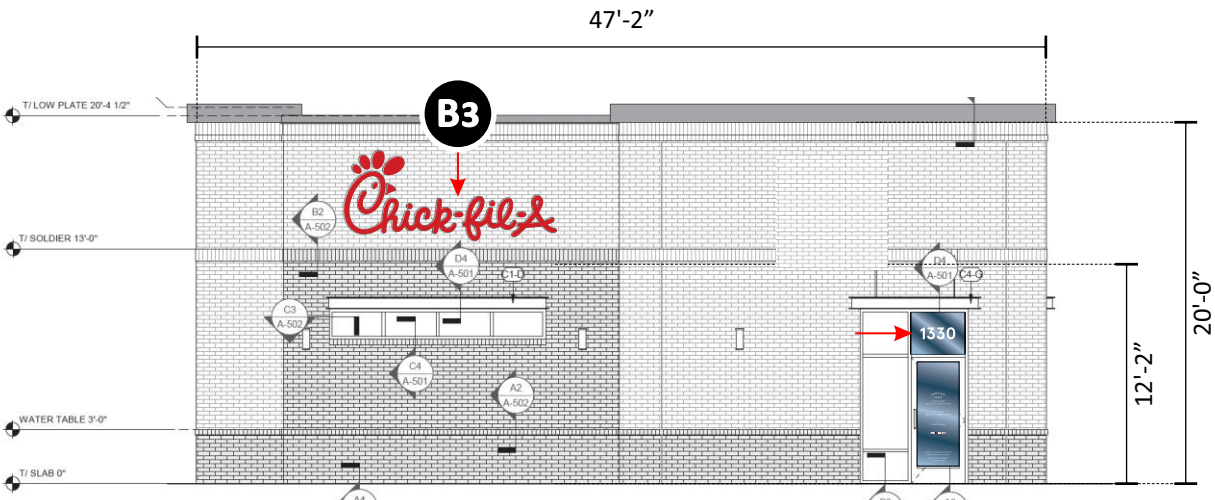


REAR BLDG. ELEVATION

SIGN: 38 SQ. FT.

SCALE: 3/32" = 1'-0"

BLDG. SQ. FT. 912.41

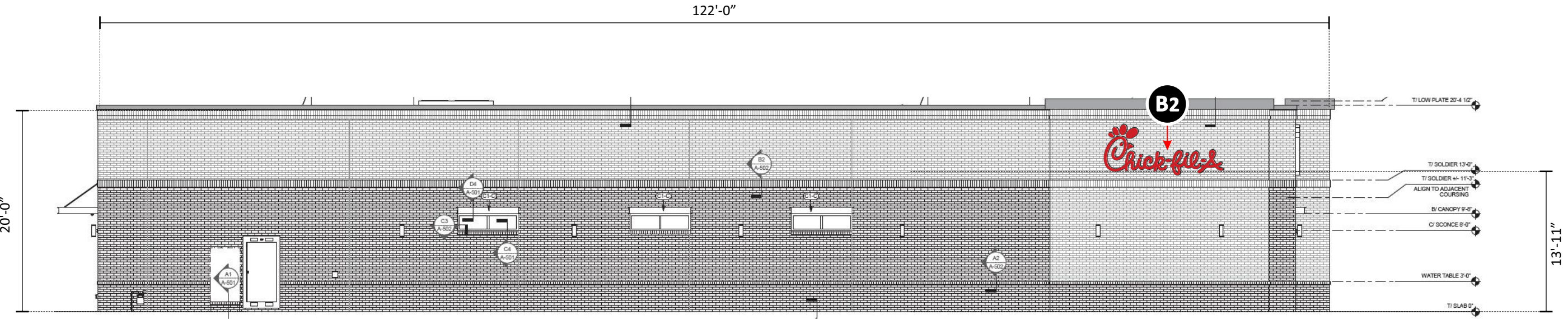


FRONT BLDG. ELEVATION

SIGN: 38 SQ. FT.

SCALE: 3/32" = 1'-0"

BLDG. SQ. FT. 946.42

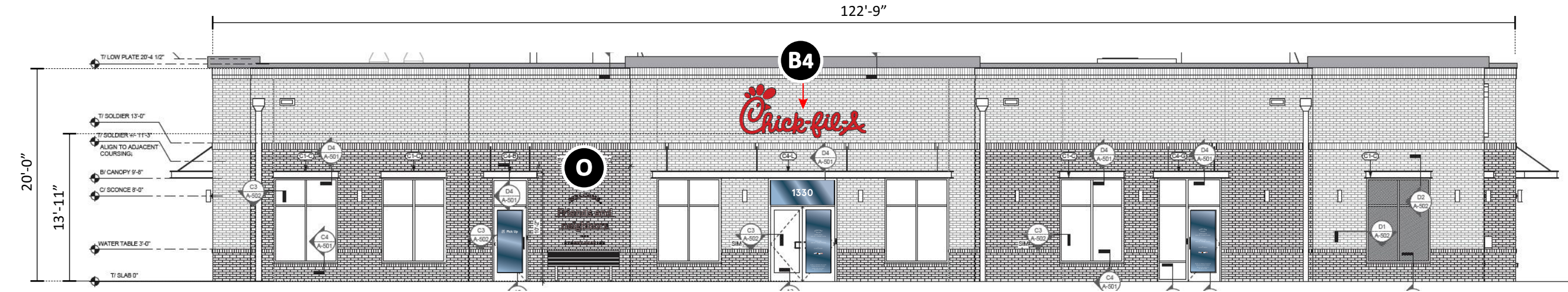


DRIVE THRU ELEVATION

SIGN: 38 SQ. FT.

SCALE: 3/32" = 1'-0"

BLDG. SQ. FT. 2450.35



MAIN ENTRY ELEVATION

SIGN: 38 SQ. FT.

SCALE: 3/32" = 1'-0"

BLDG. SQ. FT. 2459.63

Design #	0629178AR7
Sheet	5 of 28
Client	#5391
Address	3310 WASHTENAW AVE, ANN ARBOR, MI
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Designer	ANGELICA
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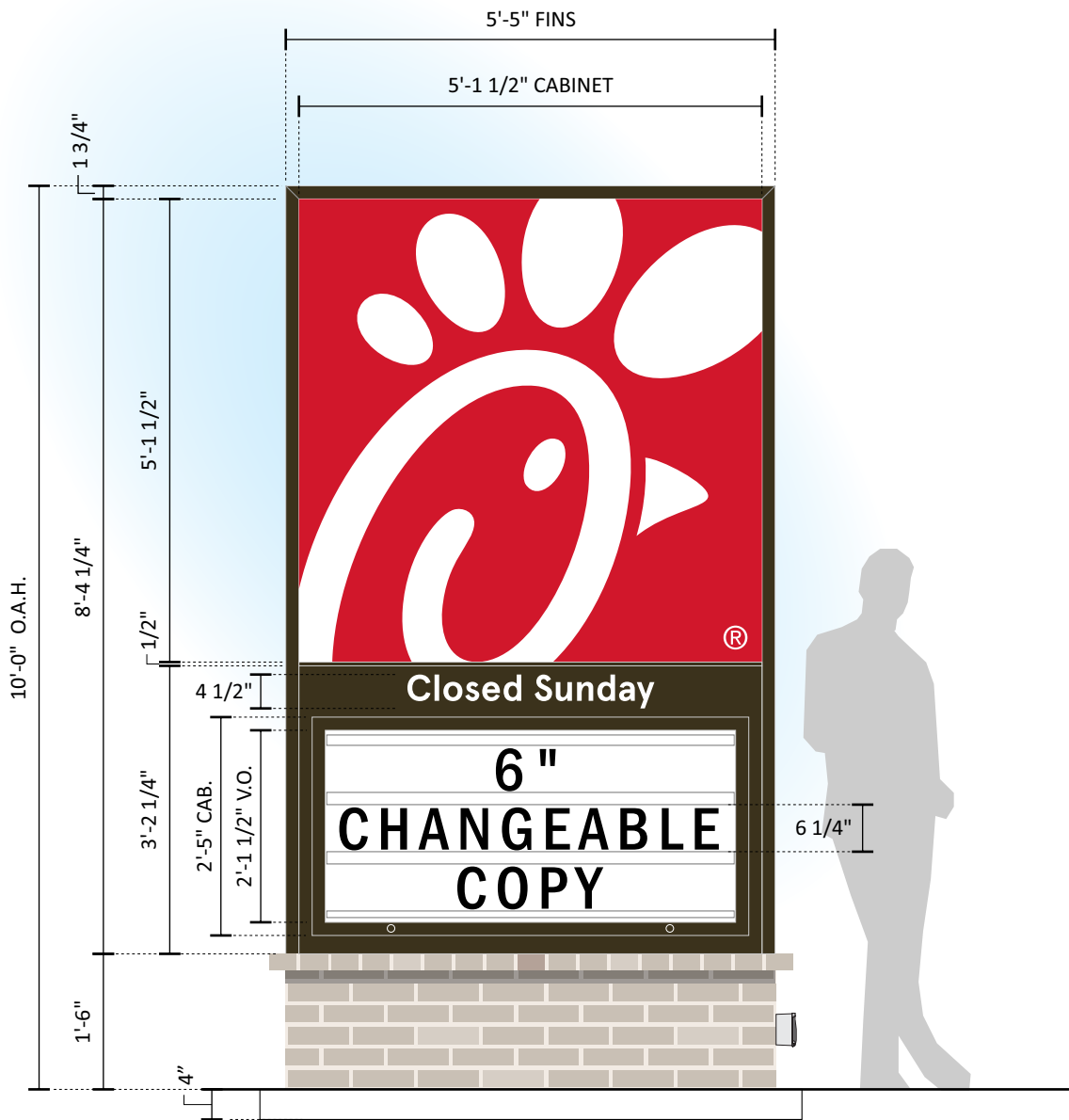
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ELEVATIONS





**A D/F MONUMENT SIGN** SCALE: 1/2" = 1'-0"  
ONE ( 1 ) REQUIRED - MANUFACTURE AND INSTALL 46 SQ. FT.

**SPECS:**  
MONUMENT IS EXTRUDED ALUM. FRAME WITHALUMINUM  
TUBE FRAME BASE. .080" ALUM. CLADDING PAINTED  
MATTHEWS #20181 EQUUS BRONZE, SATIN.

**MAIN ID LOGO FACES**  
EXTRUDED ALUM. CABINET PAINTED MATTHEWS #74155 DARK  
BRONZE, SEMI- GLOSS. WHITE BLEED 3M PANOGRAPHIC III  
FACES WITH 3M #3630-53 CARDINAL RED TRANSLUCENT VINYL  
APPLIED 1ST SURFACE. TENSION FRAME RETAINER TO BE  
PAINTED GENESIS M SINGLE STAGE ( G2-SERIES) RED #48247.  
CABINET IS INTERNALLY ILLUMINATED WITH 7100K WHITE  
LEDS AS REQUIRED.

**READER BOARD DISPLAY**  
.125" ALUM. FACE PAN PANEL WITH ROUTED OUT OPENING  
FOR READER BOARD AND R.O.S.T. COPY READING "CLOSED  
SUNDAY", WITH HINGED LOCKABLE F-TRACK VANDAL COVER  
PAINTED MATTHEWS #20181 EQUUS BRONZE, SATIN  
CLEAR LEXAN FACE WITH HINGED VANDAL COVER FRAME.  
INSET 3/16" #7328 WHITE PLEX. TRACK TO ACCOMMODATE  
THREE ( 3 ) LINES OF 6" CHICK-FIL-A COMMERCIAL CHANGEABLE ZIP  
LETTER SET OF 334. INTERNALLY ILLUMINATED SAME AS  
ABOVE.

DFW TECHNICAL DESIGNERS, PLEASE NOTE THAT  
ALL READERBOARD COVERS NEED 2 LOCKS, ONE NEAR  
THE CORNERS ON THE OUTSIDE OR BOTTOM OF THE DOOR.  
INCLUDE ONE KICKER BAR PER HINGED FACE.  
LOCKS TO BE KEYED ALIKE.

**FABRICATED BASE FRAME**  
.1" x 1" x .125" ALUMINUM SQ TUBE WITH 1/2"  
CEMENT BOARD.

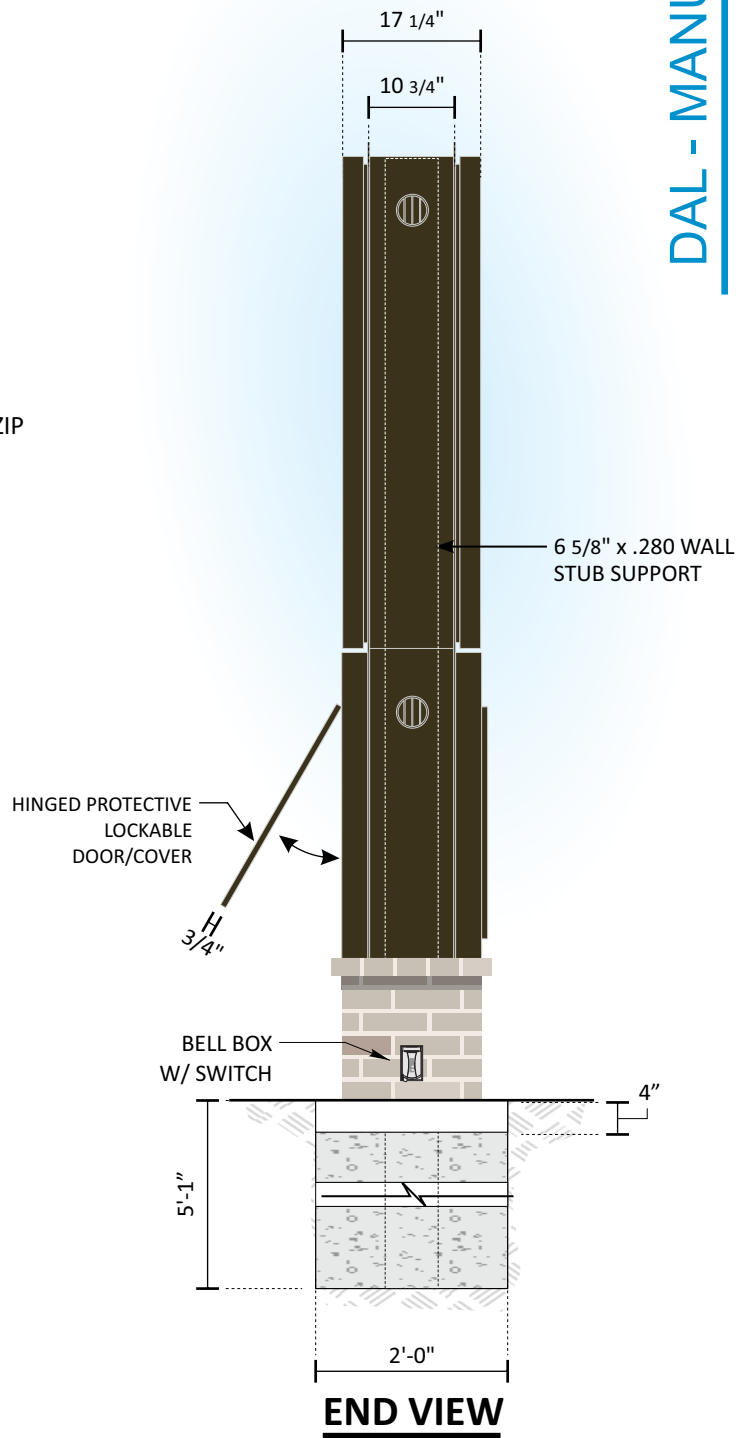
**FOUNDATION SYSTEM**  
ONE ( 1 ) 6 5/8" O.D. x .280" WALL STEEL SUPPORT  
ONE ( 1 ) 24" x 5'-1" DEEP CONCRETE PIER.

MOWPAD TO BE INCLUDED WITH CONCRETE PIER.

MODULAR BRICK: 2 1/4" x 3 5/8" x 7 5/8"

**MASONRY / BRICK: BY G.C.**  
THE MONUMENT BRICK MATERIAL AND DESIGN SHALL MATCH  
THE BUILDING MATERIAL AND MORTAR FINISH.

PRIMARY ELECTRIC RUN THRU NEC APPROVED WEATHER  
PROOF CONDUIT - COORDINATE PRIOR TO CONCRETE  
FOUNDATION / PAD POUR.



DAL - MANUFACTURING  
NEW RB FONT

Design #	
0629178AR7	
Sheet	6 of 28
Client	
#5391	
Address	
3310 WASHTENAW AVE, ANN ARBOR, MI	
Account Rep.	ROGER GHANTOUS BRIAN HEAD
Designer	ANGELICA
Date	04/16/2024
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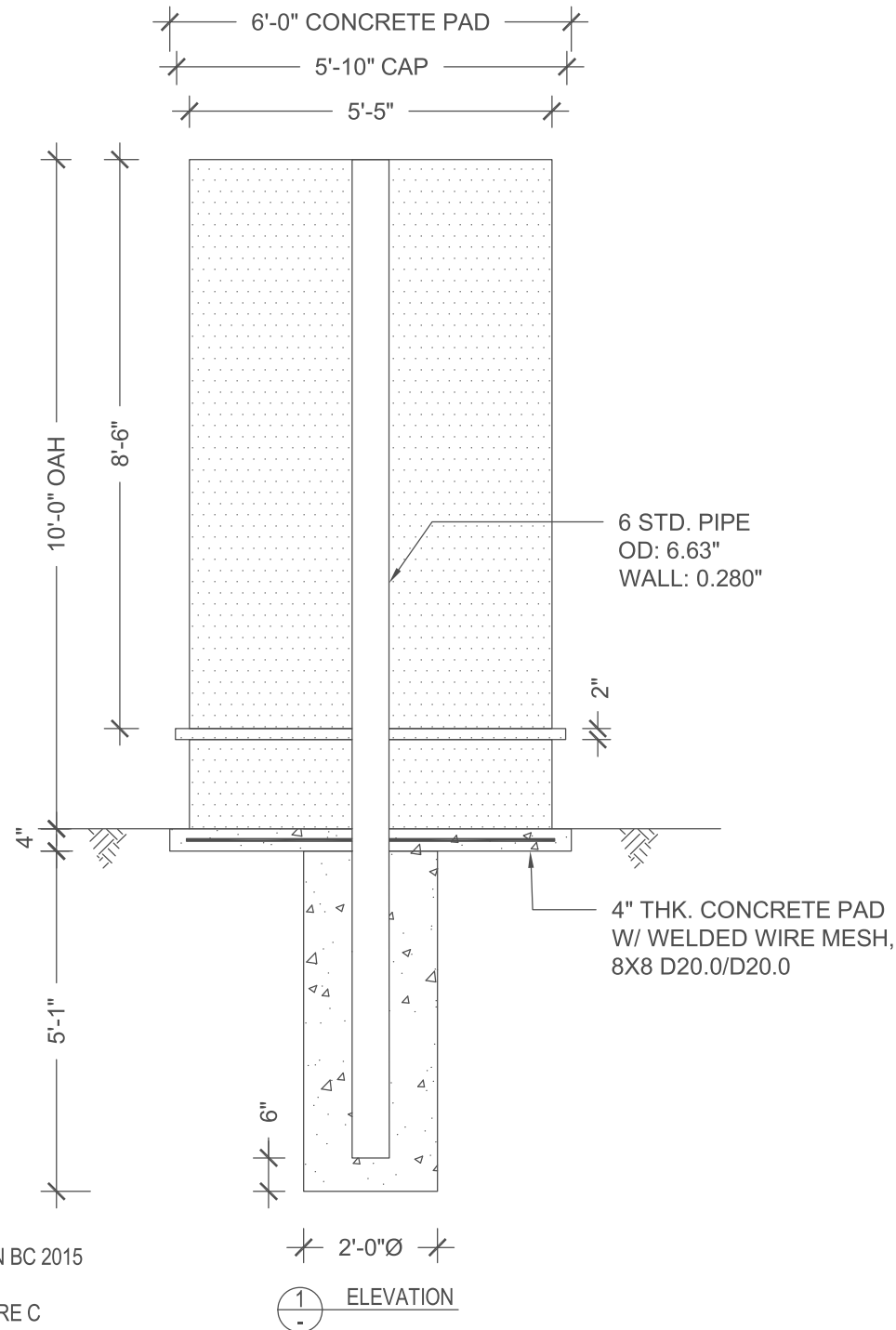
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SIGN WILL BEAR UL LABEL(S).



DATE: 02/17/2025  
ENGINEER: TH  
LAST REVISED:



2/19/2025



## GENERAL NOTES

1. DESIGN CODE: IBC 2015, MICHIGAN BC 2015
  2. DESIGN LOADS: ASCE 7-10
  3. WIND VELOCITY 115 MPH EXPOSURE C
  4. CONCRETE 2500 PSI MINIMUM
  5. PIPE STEEL ASTM A53 GR. B,  $F_y = 35$  KSI MIN.
  6. STEEL REINFORCEMENT IN CONCRETE ASTM A615 GR 60
  7. PROVIDE MIN. 3" CLEAR COVER ON ALL STEEL EMBEDDED IN CONCRETE WHEN CAST AGAINST SOIL
  8. LATERAL SOIL BEARING PER IBC CLASS 4 (150 PSF/FT)
  9. PROVIDE PROTECTION AGAINST DISSIMILAR METALS
  10. ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION



PROJECT: CHICK-FIL-A  
PROJ. NO.: 50107  
CLIENT: PATTISON ID

DATE: 2/17/2023  
ENGINEER: TH

V5.5

units; pounds, feet unless noted otherwise

**Applied Wind Loads; from ASCE 7-10 (LRFD):**

P F=q <sub>z</sub> *G*C <sub>r</sub> *A <sub>f</sub>		with q <sub>z</sub> = 0.00256K <sub>z</sub> K <sub>zt</sub> K <sub>d</sub> V <sup>2</sup>		(29.3.2 & 29.4)	
C <sub>r</sub> =	1.559	(Fig. 29.4-1)		max. height= 10.33	
K <sub>zt</sub> =	1.0	(26.8.2) (=1.0 unless unusual landscape)			
K <sub>z</sub> =	from table 28.3-1		Exposure= c		
K <sub>d</sub> =	0.85	for signs (table 26.6-1)			
V=	115	mph			
G=	0.85	(26.9)		weight=	0.542 kips
s/h=	0.968			M <sub>DL</sub> =	0.00 k-ft
B/s=	0.54				

Pole Loads	structure component	height at section c.g.	K <sub>z</sub>	q <sub>z</sub>	pressure q <sub>z</sub> *G*C <sub>f</sub>	A <sub>f</sub>	shear	Wind Moment M <sub>W</sub>			
	1	0.17	0.850	24.5	32.42	0.00	0	0			
	2	1.00	0.850	24.5	32.42	7.22	234	234			
	3	1.75	0.850	24.5	32.42	0.97	32	55			
	4	6.08	0.850	24.5	32.42	46.04	1493	9080			
					sums:	54.24	1758	9.37	(M <sub>w</sub> )	k-ft	arm= 5.3
for s/h=1, add 10% (asce fig. 29.4-1):					x 1.10			10.31			
P <sub>u</sub> =			0.65	kip				M=	10.31	k-ft	M=sqrt(M <sub>DL</sub> <sup>2</sup> +M <sub>w</sub> <sup>2</sup> )
M <sub>u</sub> =sqrt(1.2M <sub>DL</sub> <sup>2</sup> +1.0M <sub>w</sub> <sup>2</sup> ) =			10.31	k-ft							

## Pole Design

$$M_u \leq \phi M_n \text{ with } M_n = f_y Z \quad f_y = 35 \text{ ksi} \quad \phi = 0.9$$

H	M <sub>u</sub> (k-ft)	Z req'd. (in)	Size(in)	t (in)	Z	USE
at 4" below grade	10.31	3.93	4	0.237	4.1	6 Std. Pipe, $\phi$ Mn=27.8 k-ft

## Footing Design

**footprint: round**

$\omega = 1.3$	IBC 1605.3.2	IBC Table 1806.2, sections 1806.3.4, 1807.3.2	$S = (1.3 \times 2 \times 150 \text{ psf/ft})$
$P = 1.37$	kip	$S1 = S \times d / 3$	$A = 2.34 \times P / (S1 \times b)$
$S1 = 677$		$d = 0.5 \times A (1 + (1 + 4.36 \times h/A)^.5)$	$S = 400$
$A = 2.37$			IBC 1807.3.2.1

footing: 2' - 0" dia.

5' - 1" deep

## Design #

0629178AR7

Sheet 7 of 28

## Client

#5391

## Address

3310 WASHTENAW AVE,  
ANN ARBOR, MI

**Account Rep.** ROGER GHANTOUS  
BRIAN HEAD

Designer	ANGELICA
----------	----------

Date	04/16/2024
------	------------

## Approval / Date

<b>Client</b>	
<b>Sales</b>	
<b>Estimating</b>	
<b>Art</b>	
<b>Engineering</b>	
<b>Landlord</b>	

## Revision/Date

R1/06/2024(2:43)AM: UPDATED ICON SIGN TO SCRIPT IN  
ARTWORK; RELOCATED FLAPGIDE LOCATION, ADDED  
VESTIBULE DOOR VINYL "ORDER" AND "PICK UP"  
  
R2/07/2024(2:43)AM: UPDATED SP, FLOOR PLAN AND  
ELEVATIONS  
  
R3/08/19/2024(4)AM: ADDED BLADE SIGN Q TO SCOPE  
  
R4/08/22/2024(3)AM: UPDATED SIGN J1-2 TO BRONZE PANELS  
  
RS-REDTAG(9/12/4/2025)AM: UPDATED SPECS PER MARKED  
REDTAG  
  
R6/02/21/2025(AM: STAMPED ENGINEERING FOR  
SIGN A  
  
R7/22/27(5:11): UPDATED N3 TO Q2, ADDED STAMPED  
ENGINEERING FOR CL, ADDED DOOR VINYL TO FRONT  
ELEVATION



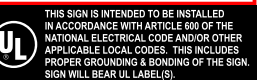
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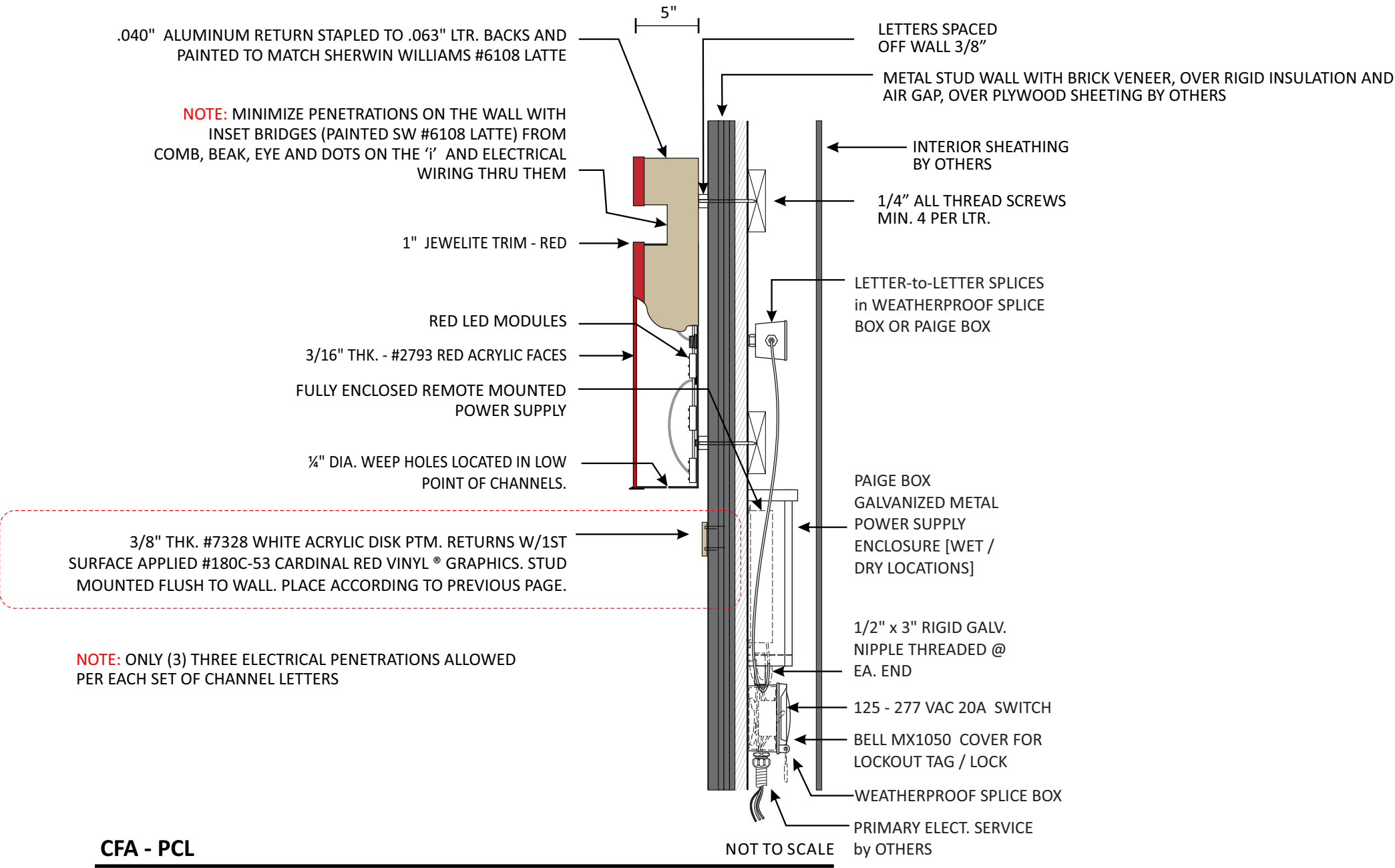
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A





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Sheet

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ROGER GHANTOUS  
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Designer

ANGELICA

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Chick-fil-A

B1-4

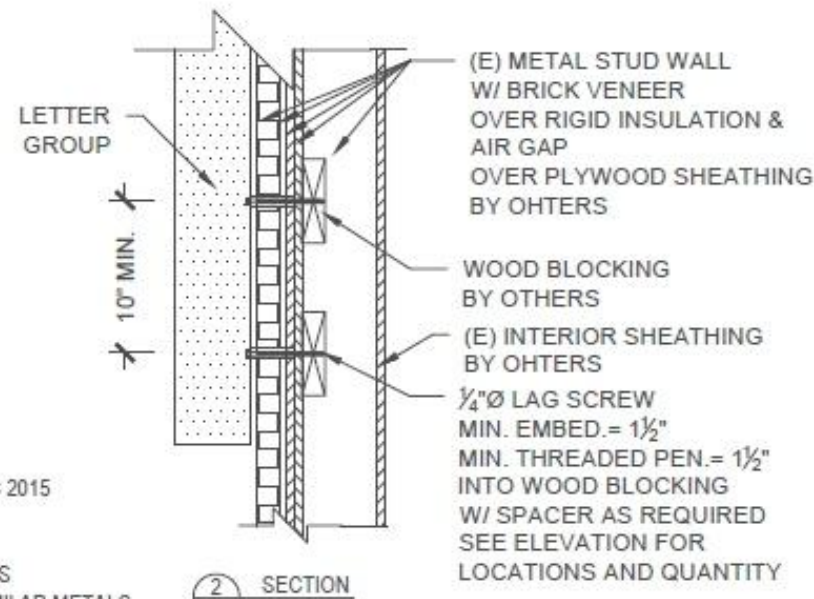
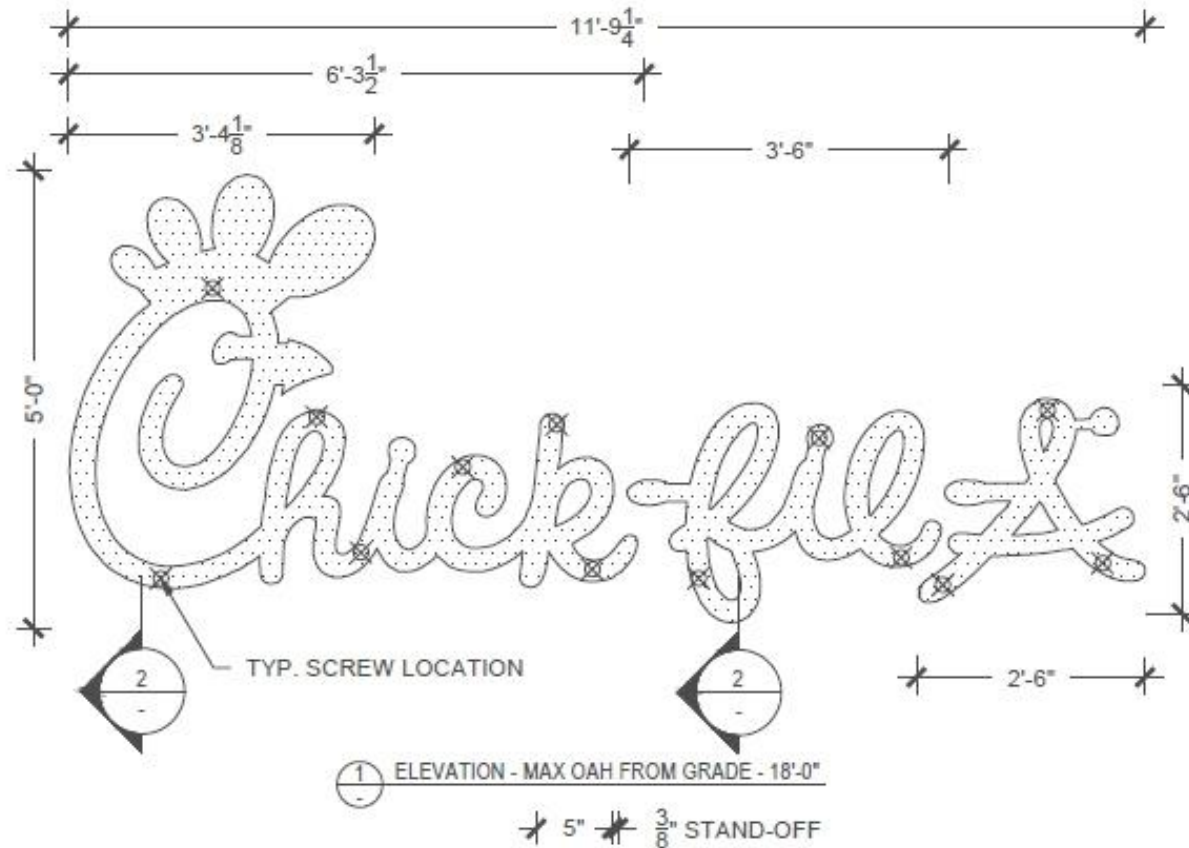




12396 WORLD TRADE DRIVE, SUITE 312  
SAN DIEGO, CA 92128  
PROJECTMANAGER@SULLAWAYENG.COM  
PHONE: 1-858-312-5150 FAX: 1-858-777-3534

PROJECT: CHICK-FIL-A, SIGN TYPE: SIGNS B1-4, 3310 WASHTENAW AVE., ANN ARBOR, MI  
PROJECT #: 50107B  
CLIENT: PATTISON ID

DATE: 2/22/2025  
ENGINEER: PRC  
LAST REVISED:

**GENERAL NOTES**

1. DESIGN CODE: IBC 2015 & MICHIGAN BC 2015
2. DESIGN LOADS: ASCE 7-10
3. WIND VELOCITY 115 MPH EXPOSURE C
4. LAG SCREWS PER NDS SPECIFICATIONS
5. PROVIDE PROTECTION AGAINST DISSIMILAR METALS
6. ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION
7. ALL EXISTING ELEMENTS AND DIMENSIONS TO BE VERIFIED IN FIELD



PROJECT: CHICK-FIL-A  
PROJ. NO.: 50107B  
CLIENT: PATTISON ID

DATE: 2/22/2025  
ENGINEER: PRC

V5.8

units; pounds, feet unless noted otherwise

**Applied Wind Loads; from ASCE 7-10**

$P_{net} = \lambda_z K_{zt} P_{net30}$		(ASCE 30.5-1)
$\lambda_z =$	1.21	(ASCE Fig. 30.5-1)
$K_{zt} =$	1.0	(unless unusual landscape)
$V =$	115 mph	Exposure = c
Area =	6.25	ft <sup>2</sup>
max. height =	18.00	ft
$P_{net30} =$	23.80	psf
$P_{net30} =$	-31.90	psf
$P_{net} =$	28.80	psf
$P_{net} =$	-38.60	psf

**Loads on 0.25" Dia. Lag Screws - Letter Group to Wall (LRFD):**

$P_{net} =$	See Above =	38.60 psf
Trib. Area for Letter Group "Chick" =	$A_{Trib} = (\text{Area from Auto CAD}) =$	8.817 ft <sup>2</sup>
Wind Load =	$WL = P_{net} \cdot A_{Trib} =$	340 lbs
Dead Load =	$DL = 1.2 \cdot 10 \text{ psf} \cdot A_{Trib} =$	106 lbs
arm =	$(5")/2 + (0.375") =$	2.875 in
MDL =	$DL \cdot \text{arm} =$	304 lbs-in
Spacing =	=	10 in
Additional tension due to DL =	$TDL = MDL / \text{spacing} / 2 \text{ screws} =$	15 lbs
#screws =	=	7 screws
dia. =	=	0.250 in
Tension per screw =	$T_u = WL / \# \text{ screws} + TDL =$	64 lbs ( Governs )
Shear per screw =	$V_u = DL / \# \text{ screws} =$	15 lbs ( Governs )

**Loads on 0.25" Dia. Lag Screws - Letter Group to Wall (LRFD):**

$P_{net} =$	See Above =	38.60 psf
Trib. Area for Letter Group "Fil" =	$A_{Trib} = (\text{Area from Auto CAD}) =$	3.586 ft <sup>2</sup>
Wind Load =	$WL = P_{net} \cdot A_{Trib} =$	138 lbs
Dead Load =	$DL = 1.2 \cdot 10 \text{ psf} \cdot A_{Trib} =$	43 lbs
arm =	$(5")/2 + (0.375") =$	2.875 in
MDL =	$DL \cdot \text{arm} =$	124 lbs-in
Spacing =	=	10 in
Additional tension due to DL =	$TDL = MDL / \text{spacing} / 1 \text{ screw} =$	12 lbs
#screws =	=	3 screws
dia. =	=	0.250 in
Tension per screw =	$T_u = WL / \# \text{ screws} + TDL =$	59 lbs
Shear per screw =	$V_u = DL / \# \text{ screws} =$	14 lbs

**Design #**

0629178AR7

Sheet 10 of 28

Client

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Address

3310 WASHTENAW AVE,  
ANN ARBOR, MIAccount Rep. ROGER GHANTOUS  
BRIAN HEAD

Designer ANGELICA

Date 04/16/2024

Approval / Date

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VESTIBULE DOOR VINYL "ORDER" AND "PICK UP"R2(07/24/2024)AM: UPDATED SP. FLOOR PLAN AND  
ELEVATIONS

R3(08/19/2024)AM: ADDED BLADE SIGN Q TO SCOPE

R4(08/22/2024)AM: UPDATED SIGN J1-2 TO BRONZE PANELS

R5-RETAG(01/24/2025)AM: UPDATED SPECS PER MARKED  
RETAGR6(02/21/2025)AM: ADDED STAMPED ENGINEERING FOR  
SIGN AR7(02/27/25)LL: UPDATED N3 TO Q2. ADDED STAMPED  
ENGINEERING FOR CL. ADDED DOOR VINYL TO FRONT  
ELEVATIONNational Headquarters 14201 Sovereign Road #101  
Fort Worth, TX 76155  
(214)902-2000 Fax (214)902-2044San Antonio 17319 San Pedro Ave  
Ste 200  
San Antonio, TX 78232  
(210)349-3804 Fax (210)349-8724South Texas PO BOX 125 206 Doral Drive  
Portland, TX 78374  
(361) 563-5599 Fax (361) 643-6533This drawing is the property of  
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CONNECTION BY  
CUSTOMER**THIS SIGN IS INTENDED TO BE INSTALLED  
IN ACCORDANCE WITH ARTICLE 600 OF THE  
NATIONAL ELECTRICAL CODE AND/OR OTHER  
APPLICABLE LOCAL CODES. THIS INCLUDES  
PROPER GROUNDING & BONDING OF THE SIGN.  
SIGN WILL BEAR UL LABEL(S).

B1-4



CLIENT: PATTISON ID

DESIGN INPUT	FACTORED FASTENER LOADING		MAIN MEMBER DOUGLAS FIR-LARCH		SIDE MEMBER ALUMINUM	
		$W_u = 64 \text{ lb}$	Withdrawal Load	$G = 0.5$	$F_u = 42 \text{ ksi}$	Ultimate Strength
	$Z_u = 15 \text{ lb}$	Lateral Load	$t_n = 1.5 \text{ in}$	$t_s = 0.063 \text{ in}$	Thickness	
	FASTENER DIMENSIONS		$\theta = 90^\circ$			
	$L_m = 1.5 \text{ in}$	Length into Main MBR				
	$D = 0.250 \text{ in}$	Nominal Diameter				
	$w = 0 \text{ in}$	Washer				
	$g = 0.375 \text{ in}$	Gap				
					Main Member End Grain (x)	

$\alpha$  1.33827 rad = 76.68 deg  
 $Z_u'$  65.5891 lb  
 $Z_a'$  561.304 lb Based on  $p_{t,rel}$   
 RATIO 0.12 PASS

**B1-4**

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**EXAMPLE-NOT TO SCALE**



**0 CFA- WELCOME F.C.O'S- 5'-6"-ONE LINE** SCALE: 1" = 1'-0"

ONE ( 1 ) REQUIRED - MANUFACTURE AND INSTALL

## SPECIFICATIONS

.5" THK. ALUM. F.C.O'S PAINTED MATTHEWS #20181 EQUUS BRONZE METALLIC  
PIN MOUNTED FLUSH TO WALL.

<b>Design #</b>	
<b>0629178AR7</b>	
<b>Sheet</b>	<b>24 of 28</b>
<b>Client</b>	
#5391	
<b>Address</b>	
3310 WASHTENAW AVE, ANN ARBOR, MI	
<b>Account Rep.</b>	ROGER GHANTOUS BRIAN HEAD
<b>Designer</b>	ANGELICA
<b>Date</b>	04/16/2024
<b>Approval / Date</b>	
<b>Client</b>	
<b>Sales</b>	
<b>Estimating</b>	
<b>Art</b>	
<b>Engineering</b>	
<b>Landlord</b>	
<b>Revision/Date</b>	
R1(06/10/2024)AM: UPDATED ICON SIGN TO SCRIPT IN ARTWORK. RELOCATED FLAGPOLE LOCATION. ADDED VESTIBULE DOOR VINYL "ORDER" AND "PICK UP"	
R2(07/24/2024)AM: UPDATED SF. FLOOR PLAN AND ELEVATIONS	
R3(08/19/2024)AM: ADDED BLADE SIGN Q TO SCOPE	
R4(08/22/2024)AM: UPDATED SIGN J1-2 TO BRONZE PANELS	
R5-REDTAG(01/24/2025)AM: UPDATED SPECS PER MARKED REDTAG	
R6(02/12/2025)AM: ADDED STAMPED ENGINEERING FOR SIGN A	
R7(2/27/25)LL: UPDATED N3 TO Q2. ADDED STAMPED ENGINEERING FOR CL. ADDED DOOR VINYL TO FRONT ELEVATION	
<b>CHANDLER SIGNS</b>	
<b>National Headquarters</b>	14201 Sovereign Road #101 Fort Worth, TX 76155 (214)902-2000 Fax:(214)902-2044
<b>San Antonio</b>	17319 San Pedro Ave Ste 200 San Antonio, TX 78232 (210)349-3804 Fax (210)349-8724
<b>South Texas</b>	PO BOX 125 206 Doral Drive Portland, TX 78374 (361) 563-5039 Fax (361) 643-6533
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