

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes
and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for
full compliance with the code

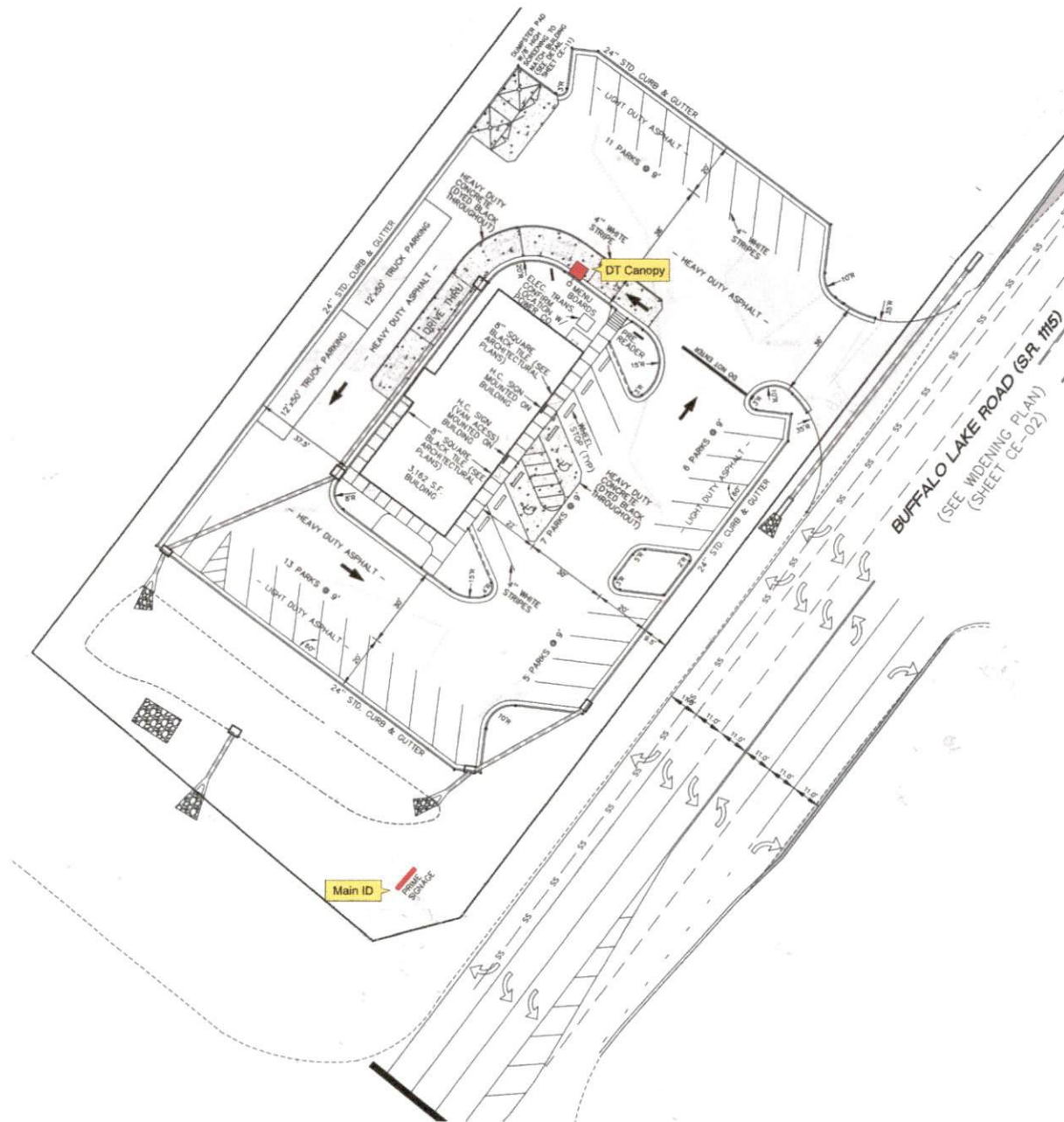


08/11/2020

Structural only



OP021027
Hwy 87 & Buffalo Lake Rd.
Cameron, NC 28326



Project Information

Client
Hardee's
 Location
**Hwy 87 & Buffalo Lake Rd.
 Cameron, NC 28326**
 File
OP021027_Cameron, NC_300
 Sales Design Project Manager
KW BH CR

Date / Description

Date	Description
05/04/20	Issue Date
07/01/20	
07/09/20	
07/16/20	

Notes

Client Review Status

Allen Industries, Inc. requires that an "Approved" drawing be obtained from the client prior to any production release or production release revision.

Approved Approved as Noted Revise & Resubmit

Name _____

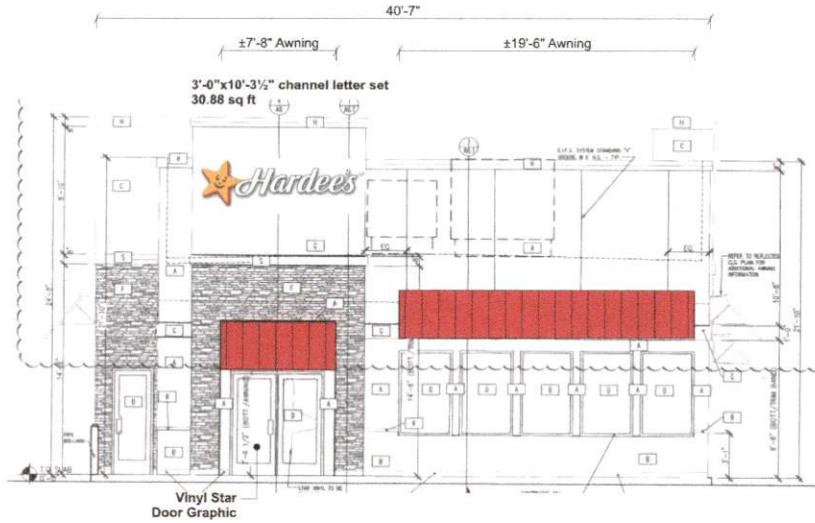
Title _____ Date _____

Declaration

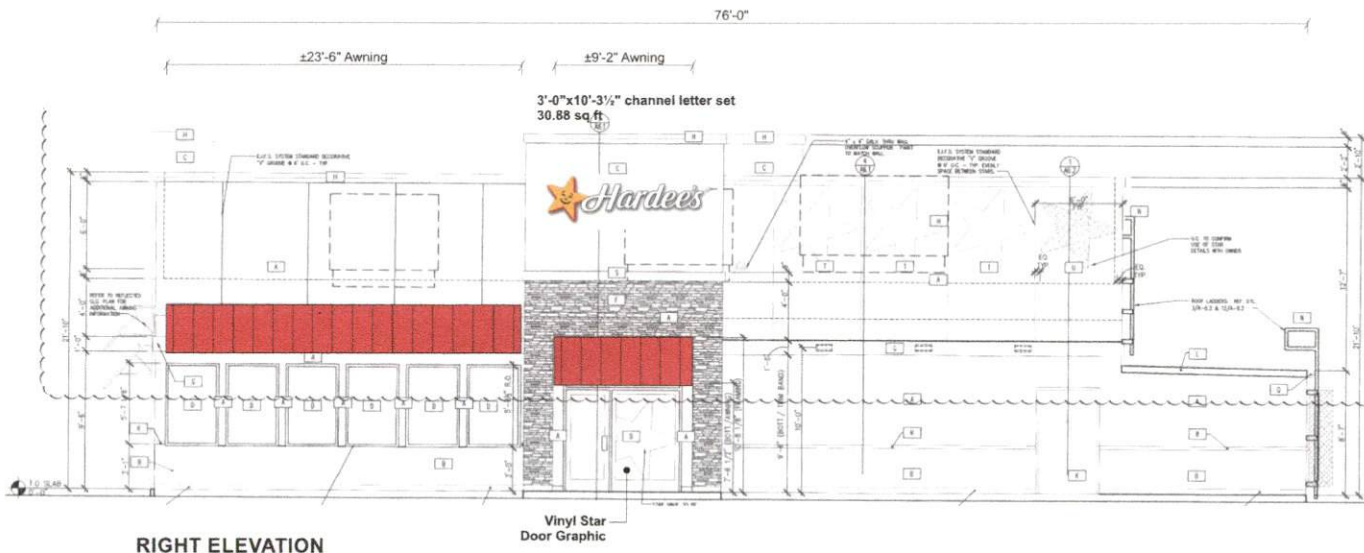
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Elevations



FRONT ELEVATION
Scale: 1/8" = 1'-0"



RIGHT ELEVATION
Scale: 1/8" = 1'-0"



Project Information

Client: **Hardee's**
 Location: **Hwy 87 & Buffalo Lake Rd. Cameron, NC 28326**
 File: **OP021027_Cameron, NC_300**
 Sales: **KW** Design: **BH** Project Manager: **CR**

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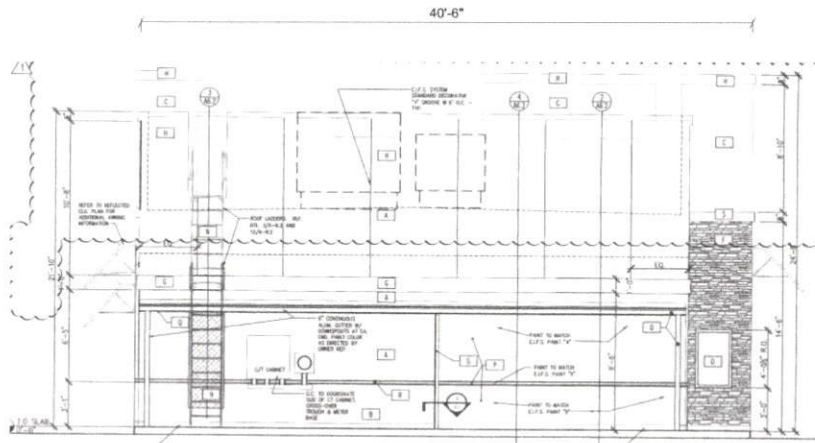
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Declaration

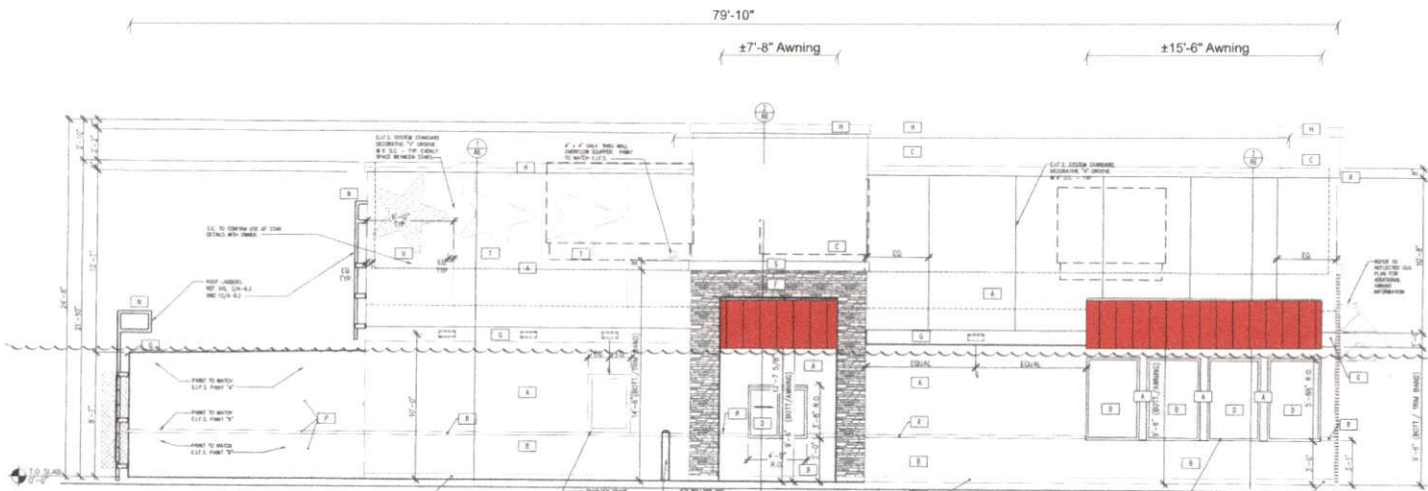
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Elevations



REAR ELEVATION
Scale: 1/8" = 1'-0"



LEFT ELEVATION
Scale: 1/8" = 1'-0"



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36" Channel Letters Face/Halo Lit



ELEVATION VIEW
Scale: 3/4"= 1'-0"



END VIEW

Specifications:

Letters:

4"D, .063"aluminum returns - Black.
.177" acrylic faces - 7328 White, 1" jewelite retainer to match returns.

Star:

4"D, .063"aluminum returns - Black.
.177" acrylic faces - 7328 White with 1st surface translucent vinyl graphics, 1" jewelite retainer to match returns.

Illumination:

Facelit White LED, Red halo backlight; 1/2" projected mounting.

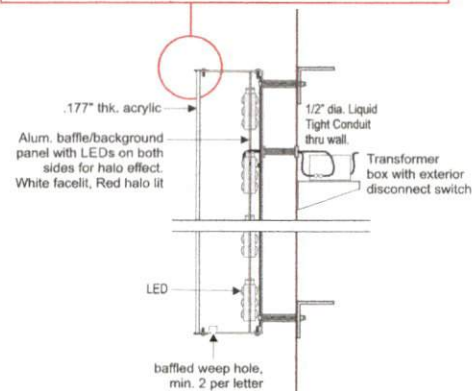
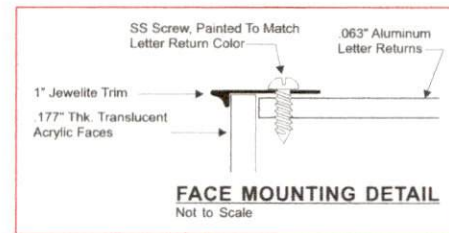
All components MET Approved

GENERAL COLOR SPECIFICATION

- PMS Black C / 3M 3630-22
- PMS 123C Yellow / 3M 3630-125
- PMS 186C Red / 3M 3630-73

Other:

- Matthews Satin Black for the returns & Jewelite Trim to match
- White - #7328 acrylic



SIDE VIEW DETAIL
LED Face & Halo Illumination



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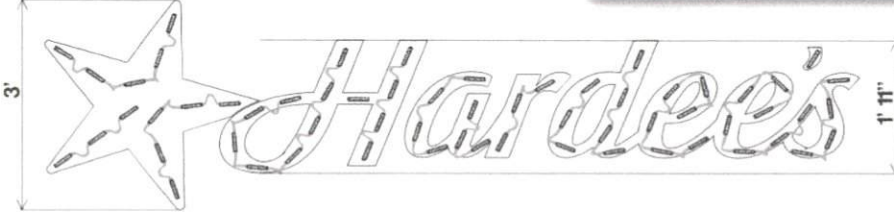
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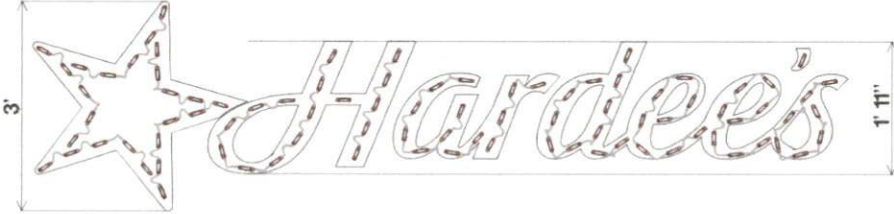
36" Channel Letters Face/Halo Lit







3' x 1' 11"



3' x 1' 11"

Material Breakdown			
FACE/LIT			
GEMX2471-W1	Modules	24V P/S	
LOGO	13		
H	13		
AR	10	P/S 1	
DEES	24		
APOS	1		

HALO/LIT, 1" DEEP			
GEMM24RD-W1	Modules	24V P/S	
LOGO	25		
H	16		
AR	13	P/S 1	
DEES	34		
APIS	1		

Can Depth	LED Loc. From Face	illumination	Power Supply Location	Primary Circuit (120 VAC)	Total Module Watts	Total System Watts	Sign Area	Energy Usage
4"	3"	FACE & HALO LIT	REMOTE	1.1 Amps	66.32 Watts	80.90 Watts	18.50 Sq Ft	4.35 Watts/Sq Ft

Sign Information		Special Instructions		SKU	Description	Quantity
ESTIMATE FOR SINGLE FACED SIGN		24V MAX (6.0" OC); TO BE INSTALLED @ 6.0" OC		93053670	GEMX2471-W1	61 Mod 41 Ft
		24V MIN/MAX (6.0" OC); TO BE INSTALLED @ 4.5" OC		92069932	GEMM24RD-W1	89 Mod 59 Ft
					GEP24-100U-NA	1 Ea
					GEP24-25U-NA	0 Ea
				191600041 or 192160004	Wire Connector	24 Ea
				9459	16 AWG Supply Wire	70 Ft
				191600041	Wire End Caps	20 Ea

1) THE GRAPHICS ABOVE ARE FOR REFERENCE ONLY, and should not be used for commercial quotation or bid without validation. The material estimates for Tetra® LED Systems are based upon our engineering standards and information provided pertaining to font, letter height, can depth, face material, and any special instructions provided by the customer. Missing information will cause delays in delivery of estimates as well as affect product selection, quantities, application, and illumination.


2) LED MODULE PLACEMENT AND QUANTITY IS AN APPROXIMATION ONLY. The sign manufacturer must verify module placement and quantity to ensure even illumination.

3) Final material quantities for estimation purposes and construction are the responsibility of the sign OEM.

4) All signs should be tested as complete units (including correct Tetra® power supply) before installation for acceptable color, illumination, intensity, & functionality.

5) For detailed information and instructions refer to the applicable Tetra® product found under Signage: <https://products.currentbyge.com/>

TECHNICAL SUPPORT:
888-694-3533 / 216-266-2419
EMAIL: tetra@currentbyge.com



powered by GE

Drawn By: PU
Checked By: PU
Date: 9/17/18

Job Name: Hardees
Customer Name:

Drwg #: 077756 01 Rev

PAGE 1 OF 1

Project Information

Client: Hardee's
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 File: OP021027_Cameron, NC_300
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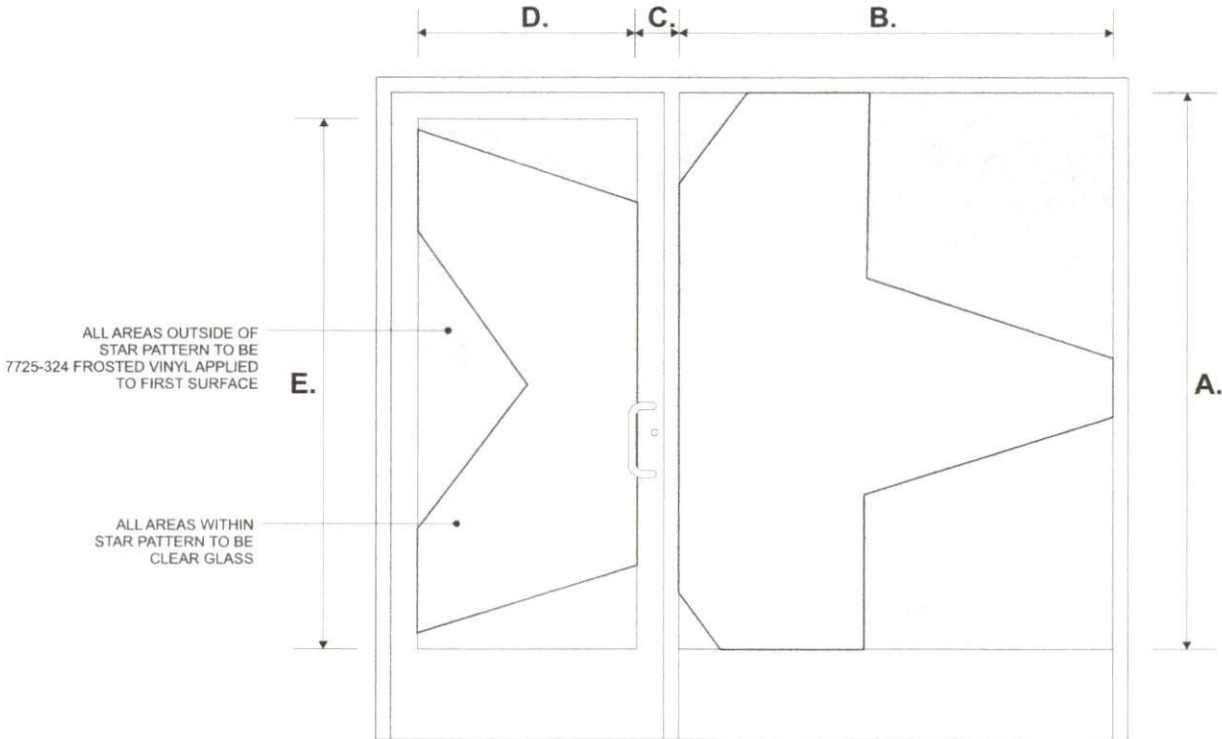
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Vinyl Star Door Graphic



2 REQUIRED



VINYL LAYOUT FOR SINGLE DOOR w/ WINDOW

N.T.S.

NOT FOR PRODUCTION USE.
BASIC TEMPLATE TO BE SCALED TO
CORRESPONDING SURVEY DIMENSIONS.

NOTE: All measurements to be
field verified prior to production

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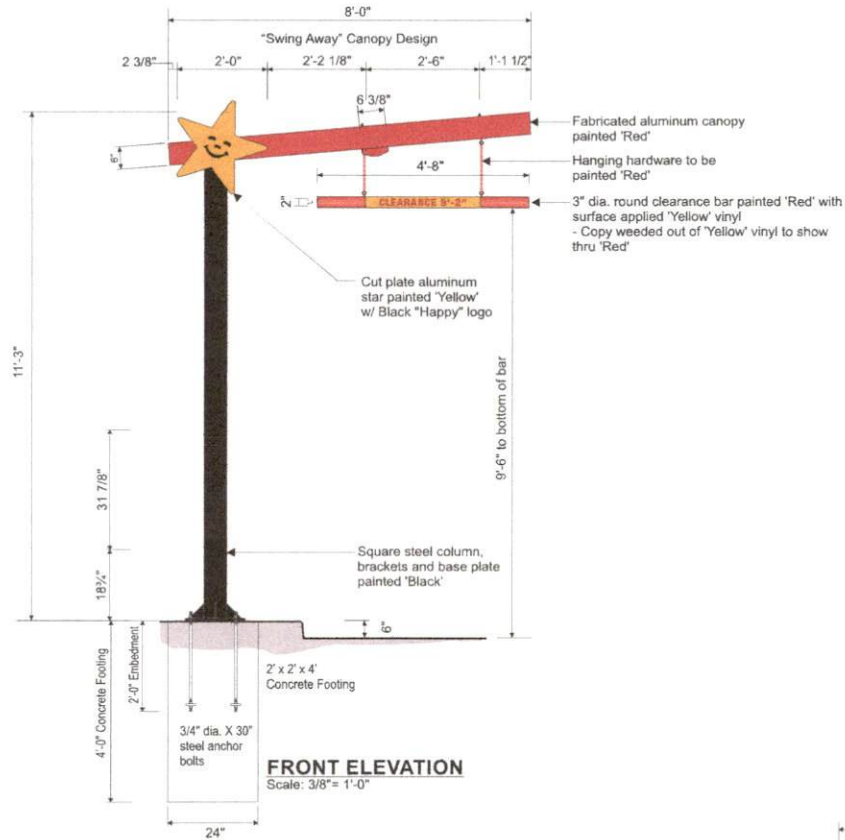
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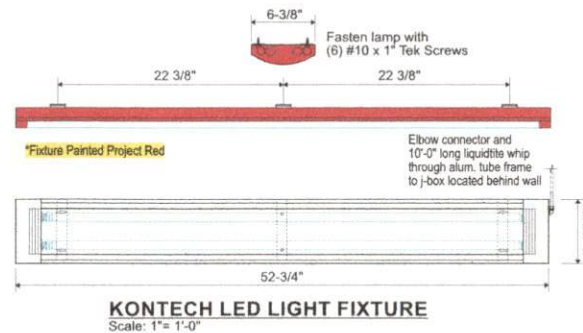
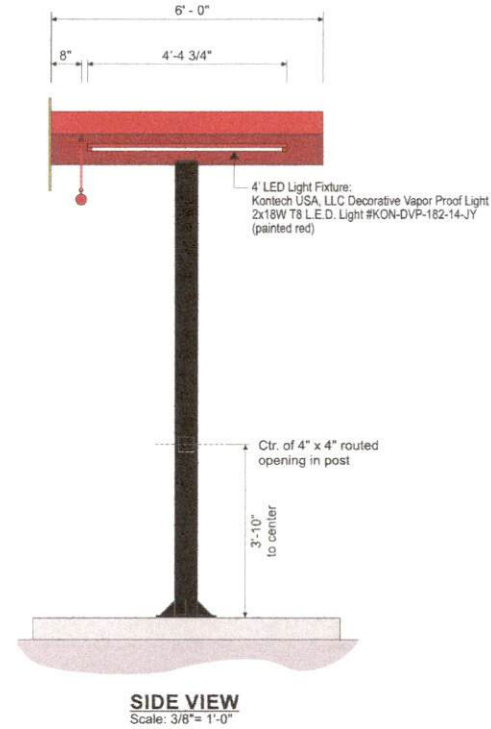
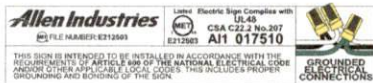
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Custom HAR-OC-FR Order Canopy, Flat Roof



GENERAL COLOR SPECIFICATION

- PMS 433C Black / 3M 3630-22 / AKZ CKE-DkGrey-082017
- Hardee's Red / AKZ 20647 / 3M 3630-73
- PMS 123C Yellow / 3M 3630-125 / AKZ CKE-Yellow-082017



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Cameron, NC 28326**

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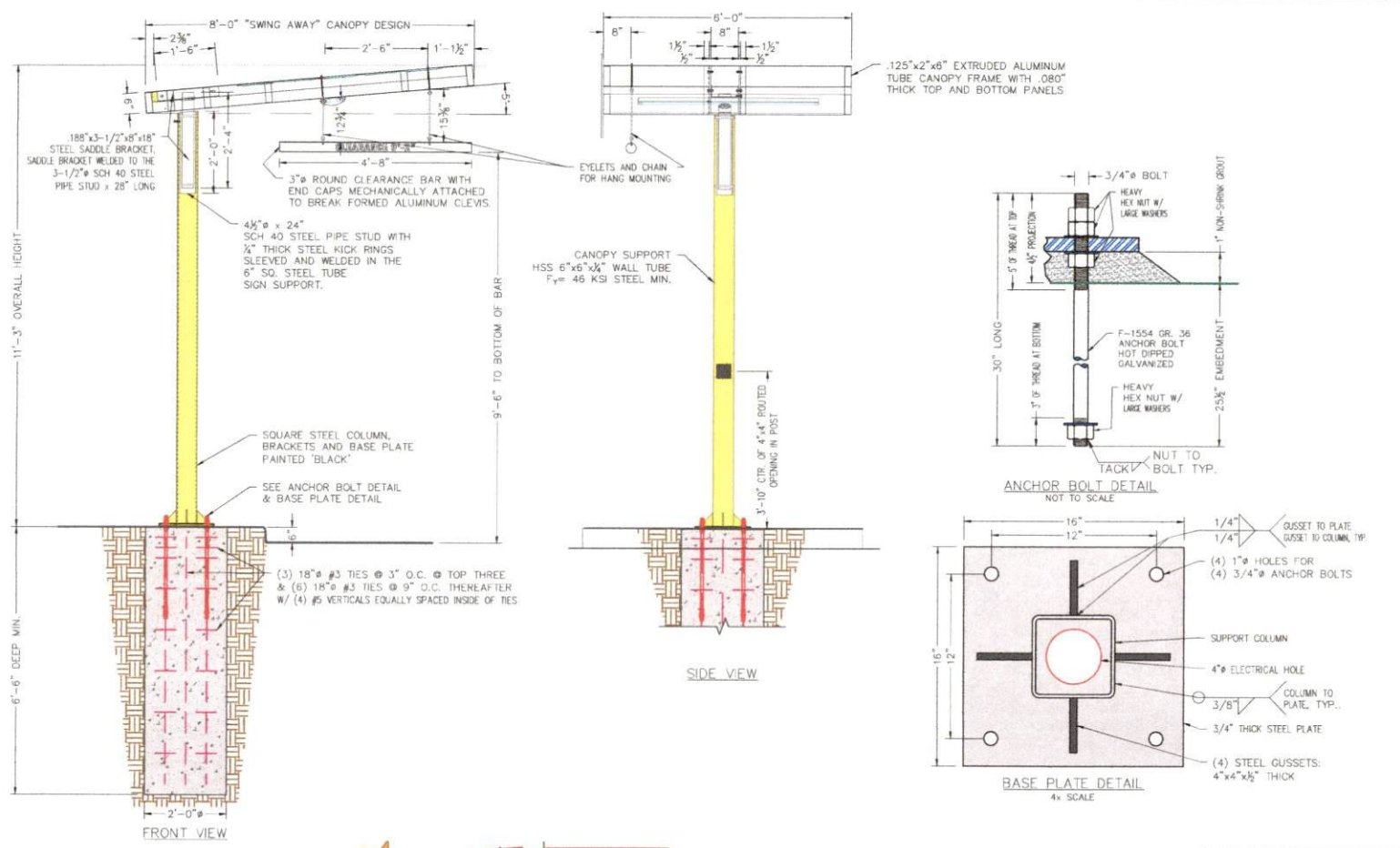
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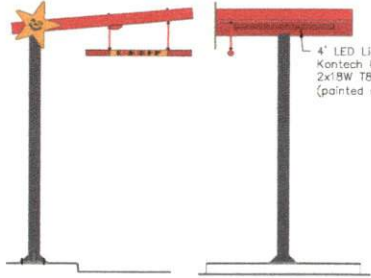
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www.allenindustries.com



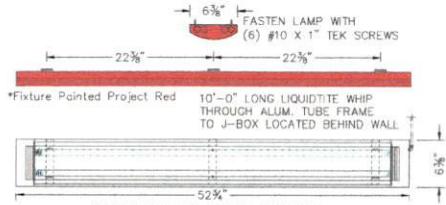
- GENERAL NOTES:**
- All design, detailing, fabricating and construction shall conform to the following codes and specifications:
 - The 2018 North Carolina Building Code.
 - The 2015 International Building Code.
 - American Society of Testing and Materials (ASTM) specifications.
 - Building Code Requirements for Reinforced Concrete (ACI 318-Current Edition).
 - Code for Welding in Building Construction of the American Welding Society.
 - Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings by the American Institute of Steel Construction (AISC) (Current Edition).
 - Aluminum Association Aluminum Design Manual (2010 Edition).
 - Concrete shall be $f_c=4,000$ P.S.I. (min.) @ 28 days Compressive Strength, STD WT (150 P.C.F.)
 - Reinforcing Steel shall be ASTM A-415 Grade 60.
 - All reinforcing steel shall be free from mud, oil, rust or coatings that would reduce or destroy bond.
 - All reinforcing bars shall lap 30 diameters minimum, except as noted.
 - Minimum concrete cover on top, slabs and main bars shall be 3-1/2 inch for slab, wall and surfaces are exposed to weather or in contact with ground; 3 inches for unexposed surfaces deposited against the ground except as noted.
 - Structural Material Specifications:
 - Aluminum shapes shall be extruded from 6061-T6 alloy. Welding filler alloy shall be 5183, 5356, 5556 or approved alternative.
 - Structural Steel and Plates shall be ASTM A-36 ($F_y=36$ ksi).
 - W-Shape beams shall be ASTM A-992 ($F_y=50$ ksi) Minimum.
 - Structural tubing shall be ASTM A-500, Grade B, (P, Y, 46 ksi).
 - Structural piping shall be ASTM A-53, Grade B, Type E or S, ($F_y=35$ ksi), ASTM A572 Grade 42 ($F_y=42$ ksi) or ASTM A572 Grade 50 ($F_y=50$ ksi), (see drawing for individual member specifications).
 - Anchor Bolts shall be F-1554 Grade 36 Rod, unless otherwise noted.
 - High strength bolts for connections shall be ASTM A-325, unless otherwise noted.
 - Welding electrodes shall comply with AWS D1.1-Current Edition, E70XX, (E70 welding to be done by welder certified for specified weld type.)
 - Roof Live Load = 20 PSF
 - Ground Snow Load = 10 PSF.
 - Design Wind Speed, V_{50} = 110 MPH (ASCE 7.10) Equivalent Wind Load, $P_{e,10}$ = 25.3 PSF @ 115.3' above the ground (3 Sec Wind Gusts) Exposure = C Risk Category I $I_p=1.0$ $G=0.85$
 - Soil Bearing Capacity Requirements:
 - Minimum Allowable Vertical Bearing Capacity shall be 2.5 P.S.F.
 - Minimum Allowable Lateral Bearing Capacity shall be $(150 \frac{lb}{ft^2} + 2 \times 300 \text{ P.S.F. per foot of depth. (Times two increase per IBC Section 1806.3.6)$
 - Contractor shall verify all dimensions and conditions in the field before erection and notify the Engineer of any discrepancies.

Location: Hardee's, Hwy 87 & Buffalo Lake Rd., Cameron, NC 28526
 CLIENT: PO# 200380-00
Allen Industries Inc.
 Address: 8534 Barnhart Road, Charlotte, NC 28217
 Phone: (888) 284-2007
 www.allenindustries.com

Hardee's Drive-Thru Order Canopy @ 11:30 A.M.
 DRAWN BY: D.P. Ward
 DATE: May 22, 2020
 PROJECT#: 107920
 DWG#: EB-9947
 SCALE: 3/8" = 1'-0"



GRAPHIC DETAIL
1/2x SCALE



KONTECH LED LIGHT FIXTURE
1/2x SCALE

LISTED
 Electric Sign Complies with
 UL48
 CSA C22.2 No.207
 A11 017510
 E212503

THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 800 OF THE NATIONAL ELECTRICAL CODE & OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING & BONDING OF THE SIGN.

GROUNDING ELECTRICAL CONNECTIONS

Allen Industries
 FILE NUMBER: E212503

NOTICE: T.E.S. is responsible for voltage, line plate, meter box & foundation design only signs and all sign line attachments are the responsibility of the sign manufacturer. This warning is for general information purposes only and is for the use of T.E.S. and its customers. (Unauthorized use is strictly prohibited.)

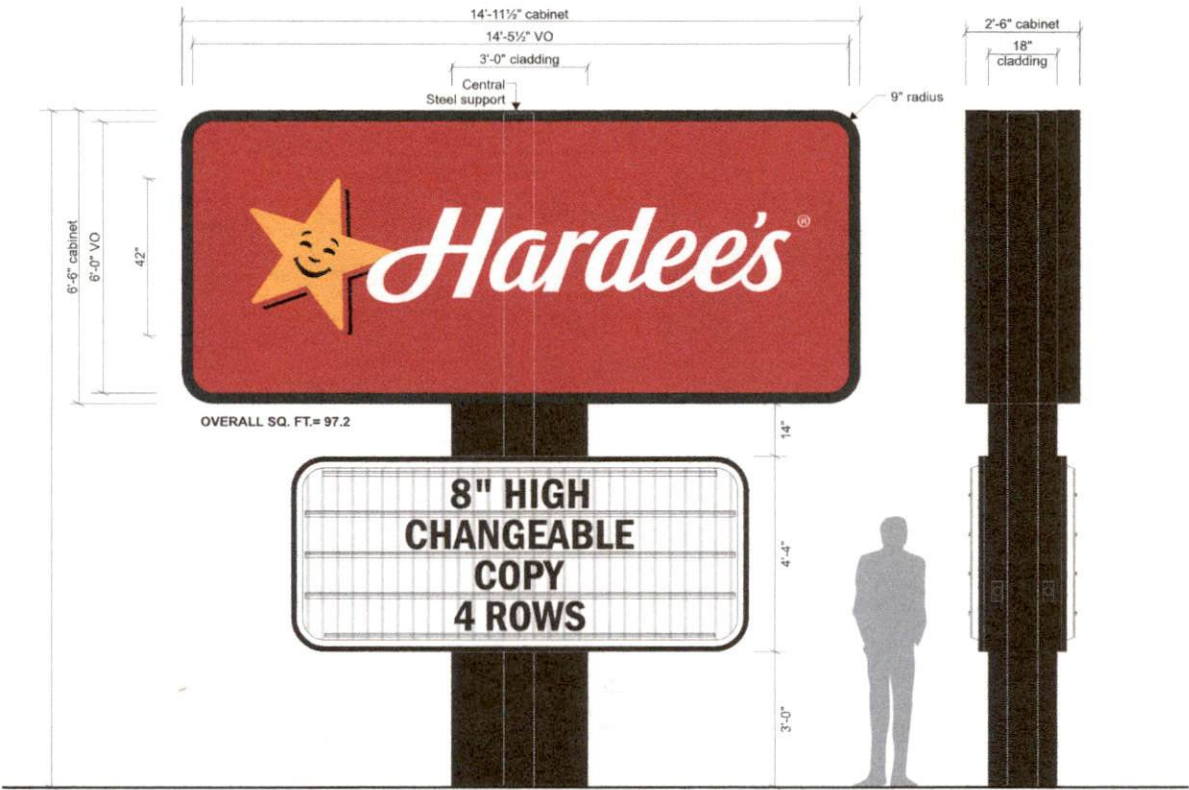
Seal:
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL
 13529
 7/22/20
 CARL E. THOMPSON, JR.
 ENGINEER

This item has been electronically signed and sealed by Carl E. Thompson, Jr., P.E. using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Layout & Details

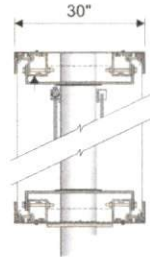
T.E.S. THOMPSON ENGINEERING SERVICES, LLC
 P.O. BOX 1500, ENGLEWOOD, TN 37329
 PHONE: (423)781-7336 FAX: (423)781-7337

6'-6" Flex Face Cabinet Sign



OVERALL SQ. FT.= 97.2

ELEVATION VIEW - Graphic Layout
Scale: 3/8"= 1'-0"



End View - Section Detail
Scale: N.T.S.

END VIEW
Scale: 3/8"= 1'-0"

GENERAL SPECIFICATIONS:

Double face sign cabinet to be manufactured from aluminum 30" deep extrusion with extruded aluminum retainer system. Tensioning system to be 3M wedge clamp or equal.
 Faces to be flat flexible faces with graphics applied to first surface in colors as noted. Exterior of faces to receive Gasskote FX laminate coating.
 Internal illumination provided by led and required power supplies. Sign equipped with disconnect switch and will bear MET label.
 Sign to be installed sleeved over new steel support.
 Changeable message boards to be installed back to back on new steel support and receive .040" aluminum wrap painted black.
 Permit requires decorative pole covering. Cladding to be 1/2" aluminum angle framing with .080" aluminum cladding, painted black overall.

GENERAL COLOR SPECIFICATION

- PMS 433C Black / 3M 3630-22 / AKZ CKE-DkGrey-082017
- Hardee's Red / AKZ 0208 / 3M 3630-73
- PMS 123C Yellow / 3M 3630-125 / AKZ CKE-Yellow-082017



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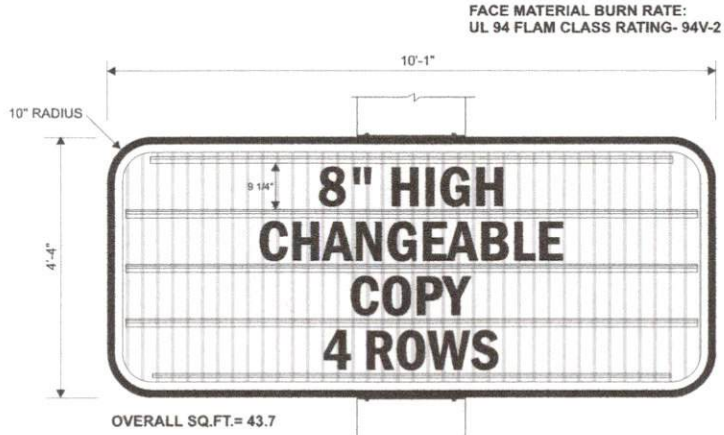
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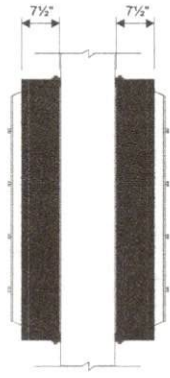
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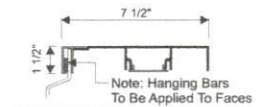
4'-4" x 10'-1" Readerboard
LED Illuminated



ELEVATION VIEW - Graphic Layout
Scale: 1/2" = 1'-0"

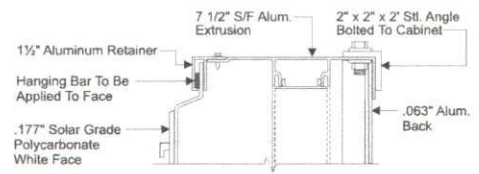


SIDE VIEW
Scale: 1/2" = 1'-0"



PART	ALLOY	TEMPER	THICKNESS
CABINET	6063	T4	.094
RETAINER	6063	T5	.094

OR EQUAL
EXTRUSION PROFILE
Scale: NTS



PRODUCTION DETAIL
Scale: NTS

GENERAL SPECIFICATIONS:

Single face sign cabinets to be manufactured from aluminum 7 1/2" deep extrusion with extruded aluminum retainer system.

Faces to be pan formed .177" solar grade, white polycarbonate with embossed planking and clear plastic track applied to accommodate (4) rows of 8" high, black, flat 'zip change' changeable copy on 10" card.

Internal illumination provided by white LED. Signs are equipped with disconnect switch and will bear MET Label.

Signs to be installed back to back on support with 2"x 2"x 2' long steel angle (top & bottom) bolted to cabinet and welded to steel support.

PLASTIC / PAINTED

- AKZ BLACK
- AKZ SIGN 391227 WHITE

METAL / PAINTED

- AKZ B15 BLACK
- AKZ B10 WHITE



THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 609 OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING AND BONDING OF THE SIGN.



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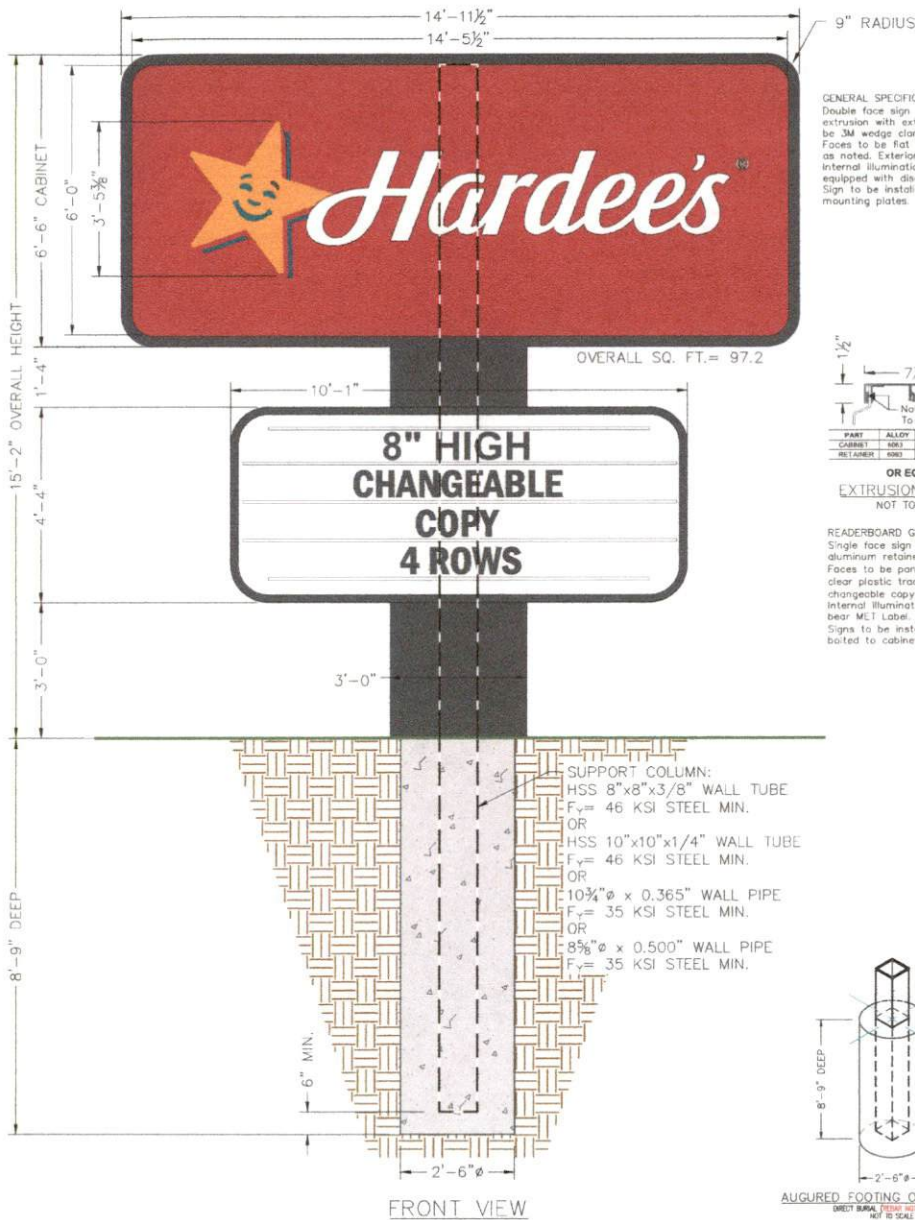
Name _____
Title _____ Date _____

Declaration

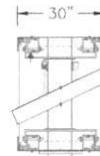
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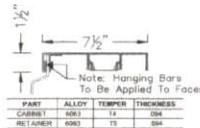
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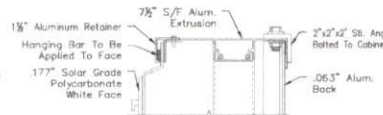
GENERAL SPECIFICATIONS:
Double face sign cabinet to be manufactured from aluminum 30" deep extrusion with extruded aluminum retainer system. Tensioning system to be 3/4" wedge clamp or equal.
Faces to be flat flexible faces with graphics applied to first surface in colors as noted. Exterior of faces to receive Gasakote FX laminate coating. Internal illumination provided by led and required power supplies. Sign equipped with disconnect switch and will bear MET label.
Sign to be installed on new or existing support with matched steel mounting plates.



END VIEW - SECTION DETAIL
NOT TO SCALE

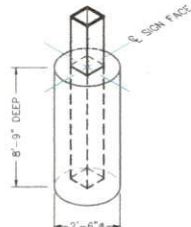


OR EQUAL
EXTRUSION PROFILE
NOT TO SCALE

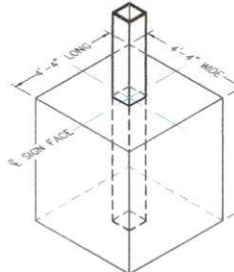


PRODUCTION DETAIL
NOT TO SCALE

READERBOARD GENERAL SPECIFICATIONS:
Single face sign cabinets to be manufactured from aluminum 7 1/2" deep extrusion with extruded aluminum retainer system.
Faces to be pan formed 177" solar grade, white polycarbonate with embossed plinking and clear plastic track applied to accommodate (4) four rows of 8" high, black, flat 'zip change' changeable copy on 10" card.
Internal illumination provided by white LED. Signs are equipped with disconnect switch and will bear MET Label.
Signs to be installed back to back on support with 2" x 2" x 2' long steel angle (top & bottom) bolted to cabinet and welded to steel support.



AUGURED FOOTING OPTION DETAIL
(SHEET 2/3) (FROM NOT RELEASED)
NOT TO SCALE



CURE FOOTING OPTION DETAIL
(SHEET 3/3) (FROM NOT RELEASED)
NOT TO SCALE

GENERAL NOTES:

- All design, detailing, fabricating and construction shall conform to the following codes and specifications:
a. The 2018 North Carolina Building Code.
b. The 2015 International Building Code.
c. American Society of Testing and Materials (ASTM) specifications.
d. Building Code Requirements for Reinforced Concrete (ACI 318 - Current Edition).
e. Code for Welding in Building Construction of the American Welding Society.
f. Specifications for Design, Fabrication and Erection of Structural Steel for Buildings by The American Institute of Steel Construction (AISC) Current Edition.
g. Aluminum Association Aluminum Design Manual (2010 Edition).
- Concrete shall be f'_c = 2,500 P.S.I. (min.) @ 28 days Compressive Strength, STD WT (150 P.C.F.)
- Reinforcing Steel shall be ASTM A-615 Grade 60, (if required)
a. All reinforcing steel shall be free from mud, oil, rust or coatings that would reduce or destroy bond.
b. All reinforcing bars shall be 36 diameter minimum, except as noted.
c. Minimum concrete cover on top, strips and main bars shall be 1-4 inch for slab, wall and surfaces not exposed to weather or in contact with ground, 3 inches for unreinforced surfaces deposited against the ground except as noted.
- Structural Material Specifications:
a. Aluminum shapes shall be extruded from 6061-T6 alloy. Welding filler alloy shall be 5183, 5356, 5556 or approved alternative.
b. Structural Steel and Plates shall be ASTM A-36 (F_y = 36 ksi)
c. W-Shape beams shall be ASTM A-992 (F_y = 50 ksi) Minimum
d. Structural tubing shall be ASTM A-500, Grade B, (F_y = 46 ksi)
e. Structural piping shall be ASTM A-53, Grade B, Type E or S, (F_y = 35 ksi), ASTM A572 Grade 42 (F_y = 42 ksi) or ASTM A572 Grade 50 (F_y = 50 ksi), (see drawing for individual member specifications).
- High strength bolts for connections shall be ASTM A-325, unless otherwise noted.
- Welding electrodes shall comply with AWS D1.4 Current Edition, E70XX. (All welding to be done by welder certified for specified weld type.)
- Design Wind Speed, V₁₀₀ = 110 MPH (ASCE 7-10) Equivalent Wind Load, F_w = 32.1 PSF @ 15'-0" above the ground (3 Sec. Wind Gusts). Exposure "C" Risk Category I A_w = 1.0 G = 0.85
- Soil Bearing Capacity Requirements:
a. Minimum Allowable Vertical Bearing Capacity shall be 2.5 A P.S.F.
b. Minimum Allowable Lateral Bearing Capacity shall be (1.50 P_v * 2) = 100 P.S.F. per foot of depth. (Times two increase per IRC Section 1806.3.4).
- Contractor shall verify all dimensions and conditions in the field before erection and notify the Engineer of any discrepancies.

CLIENT PO: 300389-00
Allen Industries Inc.
Address: 8434 Birch Poplar Road, Greensboro, NC 27409
Phone: (888) 294-2007
www.allenindustries.com

Location: Hardee's, Hwy 87 & Buffalo Lake Rd., Cameron, NC 28326

D.P. Ward
DATE: July 22, 2020
PROJECT#: 108020
DWG#: EB-0948
SCALE: 3/8" = 1'-0"

Hardee's | Pylon Sign 6'-6" x 14'-11.5" @ 15'-2" O.A.H. w/ Reader Board

Layout & Details

C MET LISTED **ELECTRIC SIGN**

THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 600 OF THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING & BONDING OF THE SIGN.

GROUNDING ELECTRICAL CONNECTIONS

Allen Industries
FILE NUMBER: E212503

NOTICE: I, E.S., am responsible for column support & foundation design only. Signs and all sign area elements are the responsibility of the sign manufacturer. This drawing is an approved procurement proposal only and is for the use of an E.S. and its engineer. (Unauthorized use is strictly prohibited.)

Seal of **Curt E. Thompson, Jr.**, Professional Engineer, State of North Carolina, License No. 13529, dated 7/22/20.

THIS SIGN HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY **Curt E. Thompson, Jr., P.E.**, using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

THOMPSON ENGINEERING SERVICES, LLC
P.O. BOX 1500, ENGLEWOOD, TN 37329
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