#2011-29 Chick-fil-A
Project Review for Planning and Zoning Commission

Meeting Dates:	June 1, 2011
Requests:	Final PUD Amendment to allow for a single-story quick-serve drive-through restaurant.
Location:	4812 Northwest Hwy
Acreage:	1.6 acres (site); 4,833 SF building
Existing Zoning:	"B-2 PUD" General Commercial Planned Unit Development
Surrounding Properties:	North: "B-2PUD" Retail South: "B-2" Retail/Restaurant East: "B-2 PUD" Retail/Restaurant West: "B-2" Restaurant
Staff Contact:	Michelle Rentzsch 815.356.3615

Background:
The former Hooters was annexed into Crystal Lake in 2001 and granted a Final PUD and variations upon annexation. The site was retrofitted from an existing vacant fast food (Hardees) restaurant with a drive-through into a sit down restaurant. In 2005, the PUD was amended to accommodate an outdoor seating area and additional parking lot variations. When the Cog Circle ROW was constructed, it resulted in an irregular lot with frontage on Northwest Highway, Cog Circle and Manor Drive. The current petitioner, Chick-fil-A, is seeking to redevelop the site to provide a new 4,833 square foot quick serve restaurant.

Chick-fil-A started in 1946 in Georgia and has expanded into a national restaurant chain with over 1,500 locations in 39 states with annual sales over $3.5 billion. The restaurants are hugely popular, providing quick friendly service and a popular menu that offers fare for breakfast, lunch and dinner. The petitioner and their engineer have been working closely with staff to ensure the site plan with a drive through lays out safely and efficiently.

Land Use Analysis:
The property is zoned "B-2 PUD", General Commercial Planned Unit Development. This district is the City's primary commercial district accommodating highway service uses and community or regional commercial, office and service uses. The "B-2" district is intended to provide for a full range of commercial uses.

The proposed development would demolish the existing restaurant building and construct a 4,833 square-foot restaurant that would offer outdoor seating enclosed with a wrought iron style fence, an indoor play place for children and a drive-through for the convenience of their customers. Drive-through uses are permitted as a Limited Use in the "B-2" district.

Architecture
The new building would be constructed principally of masonry materials with a partial metal canopy to finish certain sections of the roofline. Each elevation offers an articulated roofline with building sections that are offset and contain either red or tan blocks of brick to offer relief to the mass of the building.

Parking
The proposed use is required to provide 48 parking spaces (1 space per every 100 square feet of gross floor area). Sixty nine parking spaces are provided on the proposed site plan, meeting the City's requirements for parking.

Signage
A monument sign is proposed that meets the sign height and sign area requirements of the UDO. Its location needs to be further reviewed to ensure sight line requirements are met. The calculations provided by the petitioner summarize the total proposed wall signage, which is 131.33 square feet. 150 square feet of wall signage would be permitted for this stand alone building. Both the monument sign and the wall signage are below what is permitted in the UDO.

Some changes are needed to the proposed wayfinding signage if the UDO criteria are to be met. In addition, the UDO allows a single menu board. Given the dual drive through configuration, there are two drive-through menu boards and one pre-order menu board for customers.

Findings of fact:
FINAL PLANNED UNIT DEVELOPMENT AMENDMENT
The petitioner is requesting a Final PUD Amendment for a single-story quick-serve drive through restaurant. A Planned Unit Development is a Special Use and Special Uses require a separate review because of their potential to impact surrounding properties and the orderly development of the City.

Section 2-400 of the Unified Development Ordinance establishes the general standard for all Special Uses in Crystal Lake. The criteria are as follows:

1. That the proposed use is necessary or desirable, at the location involved, to provide a service or facility which will further the public convenience and contribute to the general welfare of the neighborhood or community.
   ☐ Meets ☐ Does not meet

2. That the proposed use will not be detrimental to the value of other properties or improvements in the vicinity.
   ☐ Meets ☐ Does not meet

3. That the proposed use will comply with the regulations of the zoning district in which it is located and this Ordinance generally, including, but not limited to, all applicable yard and bulk regulations, parking and loading regulations, sign control regulations, watershed, wetlands, and flood plain regulations, Building and Fire Codes and all other applicable City Ordinances.
   ☐ Meets ☐ Does not meet

4. That the proposed use will not negatively impact the existing off-site traffic circulation; will adequately address on-site traffic circulation; will provide adequate on-site parking facilities; and, if required, will contribute financially, in proportion to its impact, to upgrading roadway and parking systems.
   ☐ Meets ☐ Does not meet

5. That the proposed use will not negatively impact existing public utilities and municipal service delivery systems and, if required, will contribute financially, in proportion to its impact, to the upgrading of public utility systems and municipal service delivery systems.
   ☐ Meets ☐ Does not meet

6. That the proposed use will not impact negatively on the environment by creating air, noise, or water pollution; ground contamination; or unsightly views.
   ☐ Meets ☐ Does not meet

7. That the proposed use will maintain, where possible, existing mature vegetation; provide adequate screening to residential properties; provide landscaping in forms of ground covers, trees and shrubs; and provide architecture, which is aesthetically appealing, compatible or complementary to surrounding properties and acceptable by community standards, as further detailed in Article 4, Development and Design Standards.
   ☐ Meets ☐ Does not meet

8. That the proposed use will meet standards and requirements established by jurisdictions other than the City such as Federal, State or County statutes requiring licensing procedures or health/safety inspections, and submit written evidence thereof.
   ☐ Meets ☐ Does not meet

9. That the proposed use shall conform to any stipulations or conditions approved as part of a Special Use Permit issued for such use.
   ☐ Meets ☐ Does not meet

10. That the proposed use shall conform to the standards established for specific special uses as provided in this section.
    ☐ Meets ☐ Does not meet

The UDO provides the following criteria for drive-through uses. The drive through shown on the petitioner's plans meets all the City's requirements and criteria.

Drive-through Uses

Drive-through uses must comply with the following standards:

a. General:

(i) Drive-through windows and lanes shall not be placed between the right of-way of the primary street and the associated building.

(ii) Drive-thru windows and lanes shall be placed to the side or rear of the building served. Where allowed, as part of a Planned Unit Development approval or through a variation, drive-thru windows and lanes placed between the right-of-way of primary street and the associated building shall require landscape plantings installed and maintained along the entire length of the drive-thru lane, located between the drive-thru lane and the adjacent right-of-way (not including an alley) in accordance with the provisions of Section 4-400 Landscaping and Screening Standards.

(iii) Drive-through windows shall not be permitted on the side of a building adjoining any residential property.

b. Special Use Required: Where a drive-through is adjacent to a residential property, a Special Use is required.

c. Stacking space criteria: Stacking spaces shall be provided for any use having a drive-through. The following general standards shall apply to all stacking spaces for drive-through stations:

(i) Stacking spaces and lanes for drive-through stations shall not impede on and off-site traffic movement, shall not cross or pass through off street parking areas, and shall not create a potentially unsafe condition where crossed by pedestrian access to a public entrance of a building.

(ii) Drive-through lanes shall be separated from off-street parking areas. Individual lanes shall be striped, marked, or otherwise distinctly delineated.

(iii) Bypass lanes and other parking lot drive aisles immediately adjacent to the drive-through lane(s) shall maintain the same direction of traffic flow as the drive-through.

(iv) Approach lanes for drive-through facilities shall have a minimum width of 12 feet as measured from the face of the curb. The City Engineer may administratively approve the following reductions in width for constrained sites:

One lane: reduction to 11 feet

Two or more lanes: reduction to 10 feet per lane

(v) All drive-through facilities shall be provided with a bypass lane with a minimum width of 10 feet.

(vi) Alleys or driveways in residentially zoned areas adjacent to drive through facilities shall not be used for the circulation of customer traffic

(vii) Each stacking space shall be a minimum of 10 feet wide by 20 feet long.

(viii)All drive-through facilities shall be provided with an “escape” route from an existing queue.

(ix) Estimates of anticipated drive-through traffic, processing rates, or other operational data from other existing comparable facilities shall be provided.

d. Required number of stacking spaces for specific uses: The required number of stacking spaces are to be provided before the location of the first stop (order window, order pedestal, order board, etc.) The uses below shall provide the following minimum numbers of stacking spaces:

(v) Limited Service (Fast Food) Restaurant (All Others): Total 9 stacking spaces with a minimum of 4 stacking spaces between the order board and the pick-up window.

Planned Unit Development Variation
The purpose of Planned Unit Developments is to encourage and allow more creative and imaginative design of land developments than is possible under district zoning regulations. Planned Unit Developments are, therefore, intended to allow substantial flexibility in planning and designing a proposal. This flexibility is often in the form of relief from compliance with conventional zoning ordinance site and design requirements.

Ideally, this flexibility results in a development that is better planned, contains more amenities, and is ultimately more desirable than one that would have been produced through compliance with typical zoning ordinance and subdivision controls.

Therefore more lenient site requirements may be granted where the Planned Unit Development contains features not normally required of traditional developments. If the evidence is not found to justify such conditions, that fact shall be reported to the City Council with a recommendation that the variation request be lessened or denied.

The proposed project requires variations from several Articles of the UDO, as follows. The front yard setback along this section of Route 14 (Northwest Highway) is 80 feet. The proposed building is shown with a setback of 72.7 feet. The maximum impervious surface coverage in the B-2 district is 65 percent. The proposed site plan, which is comparable in coverage to what exists today, exceeds that 65 percent requirement. Various parking lot islands do not quite meet the minimum width as stipulated by the ordinance. The parking lot setback variations granted with the former Hooters project are basically maintained with a few corner sections that clip farther into the setbacks. Lighting variances are requested to accommodate the parking lot lighting poles, the flagpole lighting, exterior wall scones and total light emitted from the site. Slight signage variances would be needed to accommodate the three menu order board signs.

Recommended Conditions:
The following conditions of approval are recommended:

1. Approved plans, reflecting staff and advisory board recommendations, as approved by the City Council:
   A. Development Application, dated 5-20-11
   B. Site Plan, HR Green, dated 5-16-10
   C. Architectural Plans, Chipman Design, dated 3-4-11
   D. Floor Plan, Chipman Design, dated 3-4-11
   E. Sign Plans, Clayton Signs, dated 5-4-11
   F. Landscape Plan, HR Green, dated 5-16-10
   G. Lighting Info, HR Green, dated 5-23-11
   H. Traffic Analysis, Regina Webster & Associates, dated 5-9-10

2. Site Plan
   A) The current site layout meets the fire apparatus access road requirements. The grade for the north entrance cannot exceed 10 percent.
   B) A fire hydrant is required within 100 feet of the Fire Department connection. Suggested location would be in the main parking lot north parking island. No obstructions are allowed within three feet in all directions of the hydrant.

C) The locations of the proposed site signage must be at least 10 feet from the property line and not block any sight line provisions.

3. Architectural Elevations
   A) The trash enclosure must be constructed of materials that match the architecture of the building. Special attention should be given to the gates, as they are especially visible upon entrance to the site. Provide plans to staff for review and approval.
   B) Provide the details of the wrought iron fencing for the outside seating area for staff review and approval.

4. Landscape Plan
   A) Provide a final landscape plan for staff review and approval that shows the location, size and varieties of the proposed foundation plantings to meet Article 4-400F4; and the parking lot landscaping to meet the provisions of Section 4-400 Landscaping and Screening Standards.

5. Signage
   A) Work with staff to bring the wayfinding signage into compliance with the UDO criteria and to locate the proposed signage in areas with no sightline conflicts.

6. As a condition of the Final PUD Amendment, variations are granted to allow the proposed development plans that meet the final requirements of the Planning & Zoning Commission and the City Council.

7. The petitioner shall address all of the review comments and requirements of the Engineering & Building, Fire Rescue, Police, Public Works, Planning & Economic Development Departments and Regina Webster & Associates Traffic Consultant.

29 2011

City of Crystal Lake
Development Application

Office Use Only
File # _____

RECEIVED
MAY 0 2 2011
BY

Project Title: Chick-fil-A

Action Requested

___ Annexation
___ Comprehensive Plan Amendment
___ Conceptual PUD Review
___ Final PUD
X Final PUD Amendment
___ Final Plat of Subdivision
___ Preliminary PUD
___ Preliminary Plat of Subdivision
___ Rezoning
X Special Use Permit
___ Variation
___ Other

Petitioner Information

Name: Chick-fil-A
Address: 5200 Buffington Road
Atlanta, GA 30349
Phone: (404) 305-4594
Fax: (404) 684-8550
E-mail: scott.patman@chick-fil-a.com

Owner Information (if different)

Name: Zetec Corporation
Address: 9606 East Mountain Springs Road
Scottsdale, AZ 85255
Phone:
Fax:
E-mail:

Property Information

Project Description: Development of a single story quick serve restaurant with drive-thru facility.

Project Address/Location: 4812 Northwest Highway, Crystal Lake, IL 60039

PIN Number(s): 19-03-351-029

Development Team

Please include address, phone, fax and e-mail

Developer: Chick-fil-A

Architect: Chipman Design Architecture, Inc.

Attorney: N/A

Engineer: HR Green, Inc.

Landscape Architect: HR Green, Inc.

Planner:

Surveyor: HR Green, Inc.

Other:

Signatures

PETITIONER: Print and Sign name (*if different from owner*) **Date**

As owner of the property in question, I hereby authorize the seeking of the above requested action.

OWNER: Print and Sign name **Date**

NOTE: If the property is held in trust, the trust officer must sign this petition as owner. In addition, the trust officer must provide a letter that names all beneficiaries of the trust.

11-29

PUBLIC NOTICE

BEFORE THE PLANNING AND ZONING COMMISSION OF

THE CITY OF CRYSTAL LAKE

IN THE MATTER OF THE APPLICATION OF Chick-fil-A

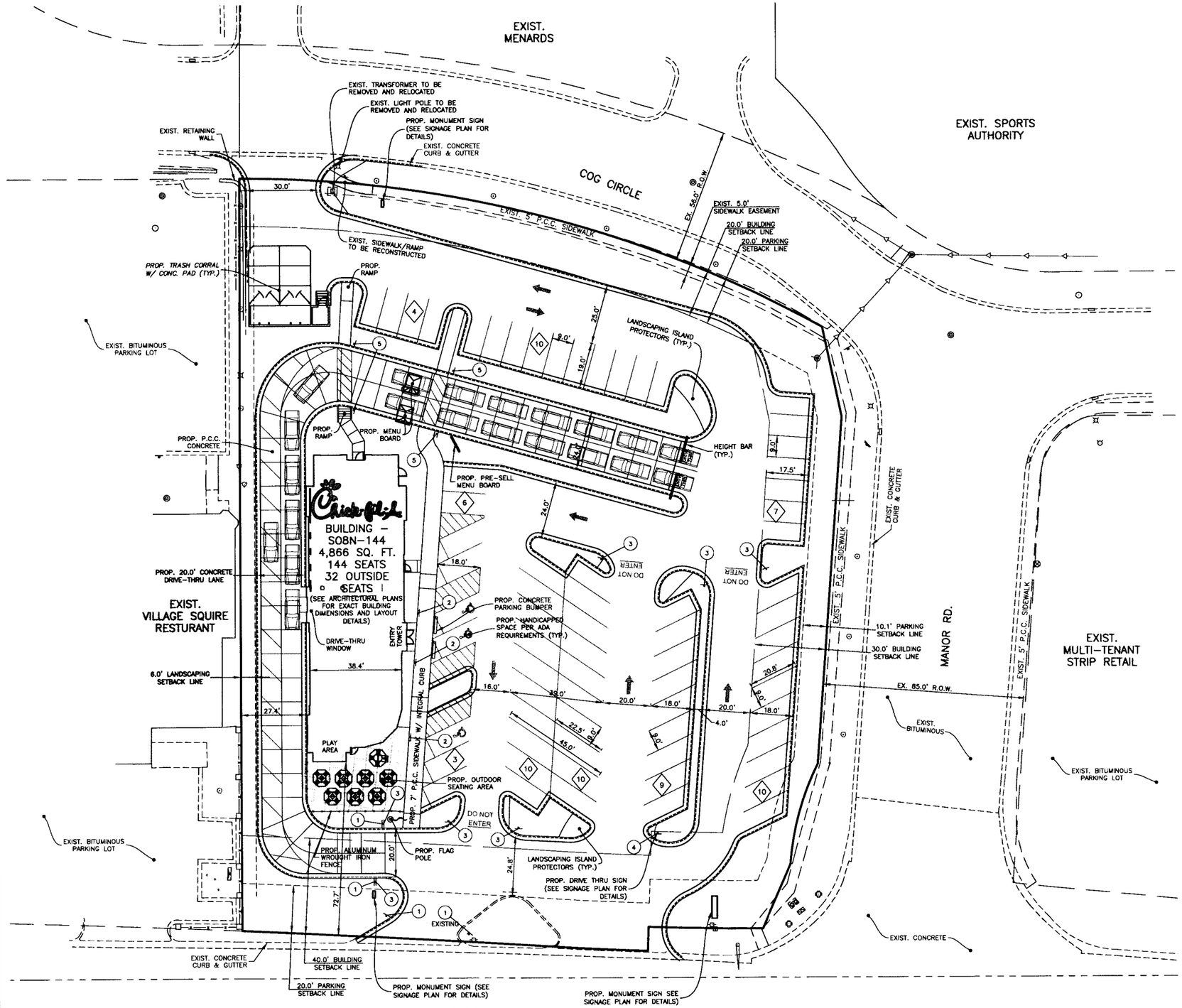
LEGAL NOTICE

Notice is hereby given in compliance with the Unified Development Ordinance of the City of Crystal Lake, Illinois, that a public hearing will be held before the Planning and Zoning Commission of the City of Crystal Lake upon the application of Chick-fil-A relating to the property located at 4812 Northwest Highway.

This application is filed for the purpose of a Final PUD Amendment and Variations from the requirements for front yard setback, impervious surface coverage and off-street parking standards and any other variations necessary to allow the petition as presented, pursuant to the requirements of Articles 9, 3-300B3, 3-300B10, 4-200D, respectively, of the Crystal Lake Unified Development Ordinance.

A public hearing before the Planning and Zoning Commission on the request will be held at 7:30 p.m. on June 1, 2011, at the Crystal Lake City Hall, 100 West Woodstock Street, at which time and place any person determining to be heard may be present.

Thomas Hayden, Chair
Planning and Zoning Commission
City of Crystal Lake
(Published in the Northwest Herald May 17, 2011)



SITE DATA:

ZONING B-2 P.U.D.

- LOT SIZE: 72,142± SQ. FT. (1.656 AC.)

BUILDING AREA:

- BUILDING FOOT PRINT: (4,832.50± SQ. FT.).
- FLOOR AREA RATIO (F.A.R.) = 0.067

PARKING DATA:

- NUMBER OF REGULAR PARKING STALLS: 66
- NUMBER OF HANDICAP STALLS: 3
- TOTAL NUMBER OF STALLS: 69
- TOTAL NUMBER OF STALLS REQUIRED: 44 (1 SPACE PER 4 SEATS) (176 TOTAL SEATS INCLUDING OUTDOOR SEATING)
- TYPICAL PARKING WIDTH: 9.0'
- TYPICAL PARKING LENGTH: VARIES
- TYPICAL ISLE WIDTH: 24'
- PARKING RATIO PROVIDED = 14.3 / 1000

DRIVE-THRU STACKING:

- THE DRIVE-THRU WINDOW WILL BE LOCATED ON THE WEST SIDE OF THE BUILDING, SO THAT PEAK QUEUES WILL REMAIN IN THE DRIVE-THRU AREA TO MINIMIZE SPILLOVER INTO THE PARKING AREA. SPACE IS PROVIDED FOR THE STACKING OF AT LEAST 21 VEHICLES ON THE NORTH AND WEST SIDES OF THE BUILDING WITHOUT IMPEDING THE CIRCULATION OF VEHICLES ON THE SITE. PROVIDING A STACKING SPACE FOR 21 VEHICLES EXCEEDS THE CITIES REQUIREMENT, WHICH REQUIRES STACKING SPACE FOR 9 VEHICLES.

SIGN LEGEND

SIGN LOCATION AS NOTED ON PLAN

1. STOP — DENOTES "STOP" R1-1, 30" X 30" (TYP.)
2. HANDICAPPED PARKING — DENOTES "HANDICAPPED PARKING" R7-8, 12" X 18" (TYP.) DENOTES "$250 FINE" R7-1101 6" X 12" (TYP.)
3. DO NOT ENTER — DENOTES "DO NOT ENTER" R5-1, 30" X 30" (TYP.)
4. DRIVE THRU — DENOTES "DRIVE THRU" "ARROW STRAIGHT AHEAD", 12" X 18"
5. PEDESTRIAN CROSS WALK DO NOT BLOCK — DENOTES "PEDESTRIAN CROSS WALK DO NOT BLOCK" 18" X 18"

0 20' — 1" = 20'

BAR IS ONE INCH ON OFFICIAL DRAWINGS

0 1"

IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

NORTH

PRELIMINARY
NOT FOR CONSTRUCTION

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

Illinois Professional Design Firm # 184-001322
HRGreen.com
HRGreen

STORE #2927
CRYSTAL LAKE
FSR SO8N-144

LOT _
CRYSTAL LAKE, IL
60014

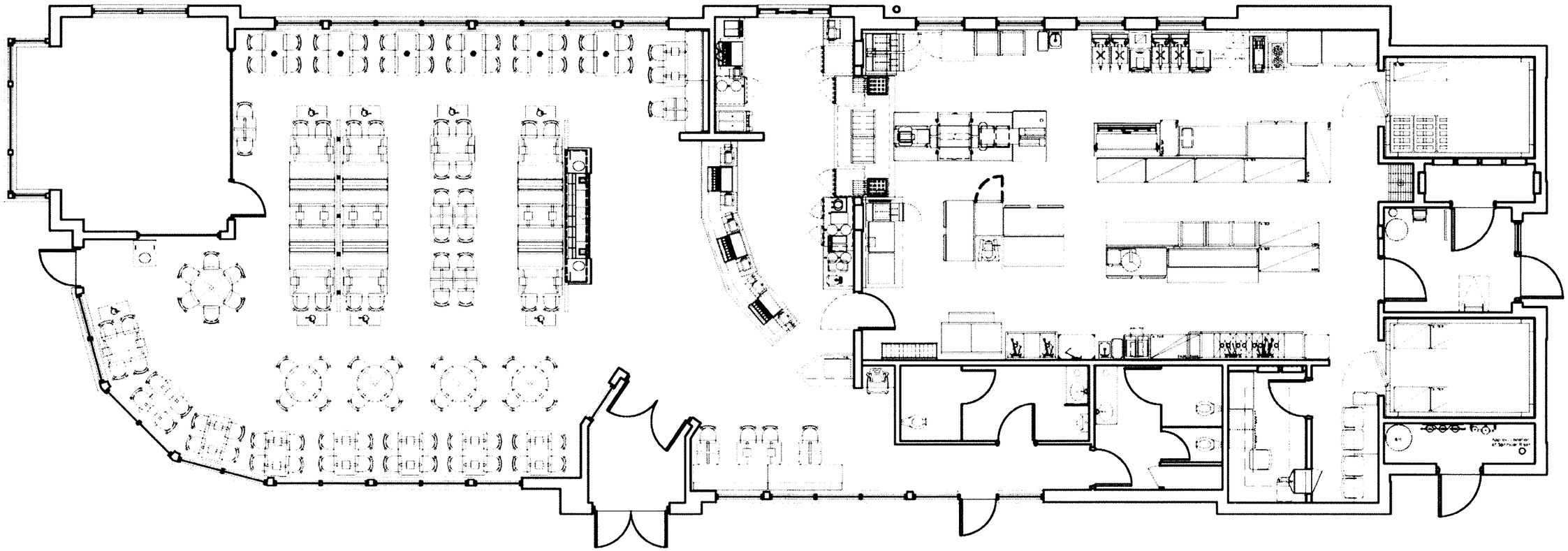
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CONCEPT PLAN J

DWG EDITION CONCEPT REVISION

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Date : 05/16/10
Drawn By : MPL
Checked By: JFV

Sheet
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FLOOR PLAN - Not to scale
Crystal Lake, IL

March 4, 2011

Chick-fil-A

ChipmanDesign
Architecture Inc.



A - Modular size brick #1 - Red Velour by Cunningham Brick
B - Modular size brick #2 - Tan by Cunningham Brick
C - Factory formed metal roof - Petersen Aluminum Corp. - Color: Cardinal Red
D - Metal coping to match metal roof - Typ.
E - Prefinished metal canopy to match metal roof
F - Aluminum storefront

NORTH ELEVATION
Crystal Lake, IL

March 4, 2011

ChipmanDesign
Architecture Inc.
1550 N. Northwest Highway, Suite 400
Park Ridge, Illinois 60068-1463
T 847.298.6900 F 847.298.6966



A - Modular size brick #1 - Red Velour by Cunningham Brick
B - Modular size brick #2 - Tan by Cunningham Brick
C - Prefinished metal roof - Color: Cardinal Red
D - Prefinished metal coping to match metal roof
E - Prefinished metal canopy to match metal roof
F - Aluminum storefront

EAST ELEVATION
Crystal Lake, IL - #2927

March 4, 2011

ChipmanDesign
Architecture Inc.
1550 N. Northwest Highway, Suite 400
Park Ridge, Illinois 60068-1463
T 847.298.6900 F 847.298.6966



A - Modular size brick #1 - Red Velour by Cunningham Brick
B - Modular size brick #2 - Tan by Cunningham Brick
C - Factory formed metal roof - Petersen Aluminum Corp. - Color: Cardinal Red
D - Metal coping to match metal roof - Typ.
E - Prefinished metal canopy to match metal roof
F - Aluminum storefront

SOUTH ELEVATION
Crystal Lake, IL

March 4, 2011

ChipmanDesign
Architecture Inc.
1550 N. Northwest Highway, Suite 400
Park Ridge, Illinois 60068-1463
T 847.298.6900 F 847.298.6966



A - Modular size brick #1 - Red Velour by Cunningham Brick
B - Modular size brick #2 - Tan by Cunningham Brick
C - Prefinished metal roof - Color: Cardinal Red
D - Prefinished metal coping to match metal roof
E - Prefinished metal canopy to match metal roof
F - Aluminum storefront

WEST ELEVATION
Crystal Lake, IL - #2927

March 4, 2011

ChipmanDesign
Architecture Inc.
1550 N. Northwest Highway, Suite 400
Park Ridge, Illinois 60068-1463
T 847.298.6900 F 847.298.6966



1 PLAN
SCALE: 1" = 20'-0"

NORTH

CHICK-FIL-A CRYSTAL LAKE						
May 20, 2011						
MATERIALS SCHEDULE						
QTY	KEY	BOTANICAL NAME/ITEM	COMMON NAME	SIZE	COND	REMARKS
DECIDUOUS TREES						
-	AG	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	APPLE SERVICEBERRY	8' HT.	B&B	MULTI-STEMMED
-	AP	ACER PLATANOIDES 'POND'	EMERALD LUSTRE NORWAY MAPLE	2.5" CAL.	B&B	CENTRAL LEADER
-	GT	GLEDITSIA TRIACANTHOS VAR.INERMIS 'SKYCOLE'	THORNLESS HONEYLOCUST	2.5" CAL.	B&B	CENTRAL LEADER
-	MS	MALUS 'SPRING SNOW'	CRABAPPLE	2.5" CAL.	B&B	SINGLE-STEMMED
-	QR	QUERCUS RUBRA	RED OAK	2.5" CAL.	B&B	CENTRAL LEADER
-	TF	TILIA X FLAVESCENS 'GLENLEVEN'	LITTLELEAF LINDEN	2.5" CAL.	B&B	CENTRAL LEADER
EVERGREEN TREES						
-	PG	PICEA GLAUCA 'DENSATA'	BLACK HILLS SPRUCE	6' HT.	B&B	
-	PN	PINUS NIGRA	AUSTRIAN PINE	6' HT.	B&B	
DECIDUOUS SHRUBS						
-	CS	CORNUS SERICEA 'KLMFOURTEEN'	SUMMER DREAMS VARIEGATED REDTWIG DOGWOOD	36" HT.	CONT.	
-	SJ	SPIRAEA JAPONICA 'GOLDFLAME'	JAPANESE SPIREA	24" HT.	CONT.	
-	SM	SYRINGA MEYERI 'PALIBIN'	DWARF LILAC	24" HT.	CONT.	
-	VD	VIBURNUM DENTATUM 'CHRISTOM'	BLUE MUFFIN ARROWWOOD VIBURNUM	36" HT.	CONT.	
EVERGREEN SHRUBS						
-	JC	JUNIPERUS CHINENSIS 'SEA GREEN'	JUNIPER	36" HT.	CONT.	
PERENNIALS AND GRASSES						
-	CA	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	1 GAL.	CONT.	24" OC
-	HE	HELICTOTRICHON SEMPERVIRENS 'SAPHIRSPRUDEL'	BLUE OAT GRASS	1 GAL.	CONT.	18" OC
-	HF	HOSTA 'FRANCEE'	HOSTA	1 GAL.	CONT.	18" OC
-	HR	HEMEROCALLIS 'ROSY RETURNS'	DAYLILY	1 GAL.	CONT.	18" OC
-	HS	HEMEROCALLIS 'STELLA DE ORO'	DAYLILY	1 GAL.	CONT.	18" OC
-	PA	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN FOUNTAIN GRASS	1 GAL.	CONT.	18" OC
-	SN	SALVIA NEMOROSA 'MAY NIGHT'	SALVIA	1 GAL.	CONT.	18" OC
-	SS	SEDUM SPECTABILE 'AUTUMN JOY'	SEDUM	1 GAL.	CONT.	18" OC
MISCELLANEOUS						
-	SOD			SY		
-	MULCH			CY		
GENERAL NOTES:						
1.	PROVIDE STRONGLY ROOTED SOD, NOT LESS THAN 2 YEARS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. PROVIDE ONLY SOD CAPABLE OF GROWTH AND DEVELOPMENT WHEN PLANTED (VIABLE, NOT DORMANT). PROVIDE SOD COMPOSED PRINCIPALLY OF AN APPROVED KENTUCKY BLUE GRASS BLEND CONTAINING A MINIMUM OF FOUR IMPROVED VARIETIES.					

KEY

- EXISTING SHADE TREE (10)
- EXISTING EVERGREEN TREE (2)
- PROPOSED SHADE TREE (18)
- PROPOSED EVERGREEN TREE (3)
- PROPOSED ORNAMENTAL TREE (8)
- PROPOSED SHRUB (407)
- PROPOSED PERENNIAL (280)

RECEIVED
MAY 20 2011
BY:

7 29 2011

0 20'
1" = 20'
BAR IS ONE INCH ON OFFICIAL DRAWINGS
0 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

PRELIMINARY
NOT FOR CONSTRUCTION

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By

Illinois Professional Design Firm # 184-001322
HRGreen.com
HRGreen

STORE #2927
CRYSTAL LAKE
FSR S08N-144

LOT _
CRYSTAL LAKE, IL
60014

SHEET TITLE
LANDSCAPE PLAN

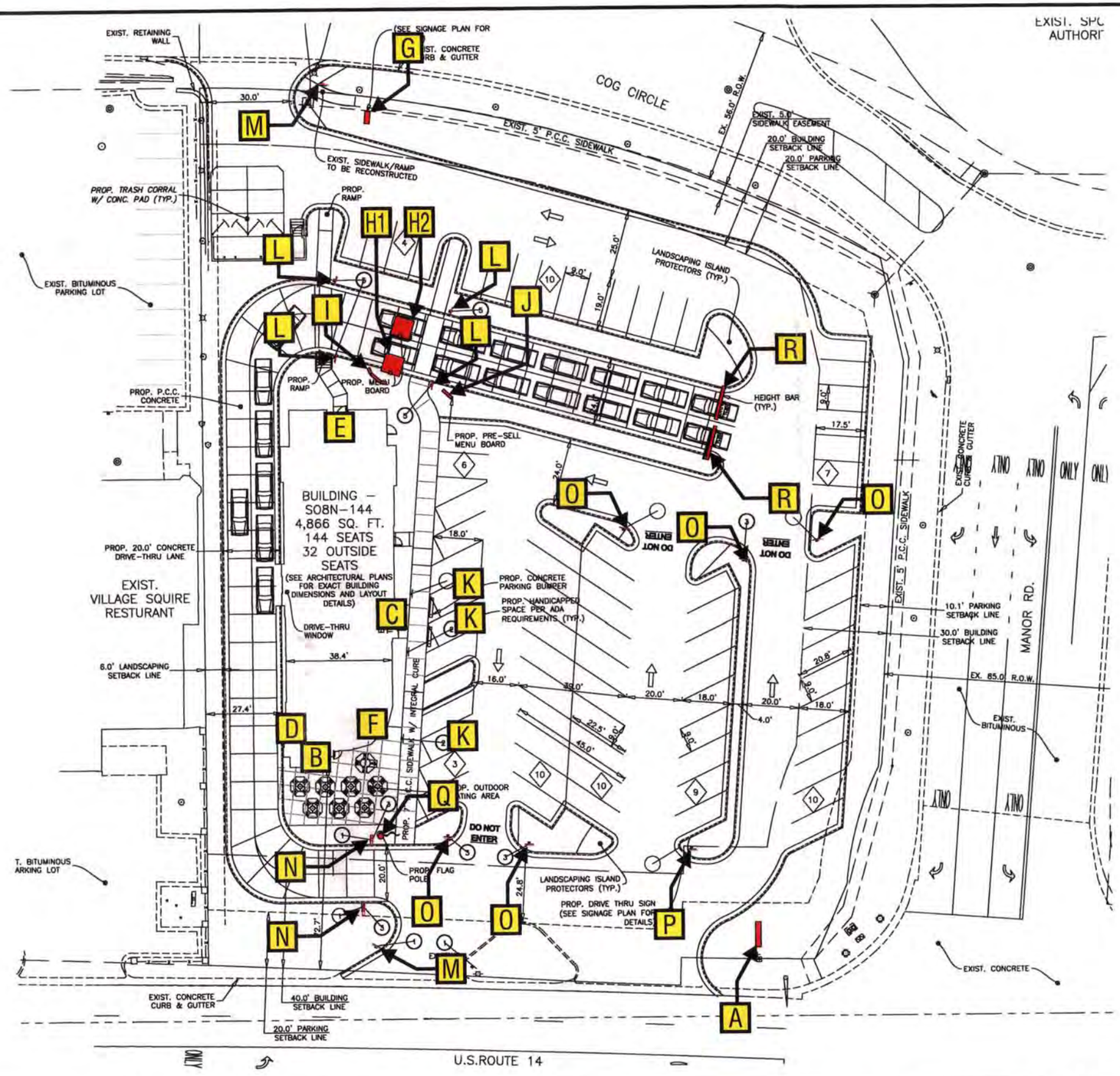
DWG EDITION
REVISION

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Checked By : ■

Sheet
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LEGEND		ALLOWED	ACTUAL
A	MAIN ID SIGN	80.00	72.00
B	WALL SIGN (SCRIPT)	75.00	33.68
C	WALL SIGN (SCRIPT)	75.00	25.26
D	WALL SIGN (SCRIPT)	75.00	25.26
E	WALL SIGN (SCRIPT)	75.00	10.38
F	WALL SIGN (TAG LINE)	75.00	36.75
G	DIRECTIONAL		
H1	DRIVE-THRU MENU CANOPY		
H2	DRIVE-THRU MENU CANOPY		
I	DRIVE-THRU MENU BOARD		
J	DRIVE-THRU PRE-SALE MENU BOARD		
K	DOT - HANDICAPPED PARKING SIGNS		
L	DOT - PEDESTRIAN SIGN		
M	DOT - STOP SIGN		
N	DOT - STOP / DO NOT ENTER SIGN		
O	DOT - DO NOT ENTER SIGN		
P	DOT - DRIVE-THRU DIRECTIONAL		
Q	FLAG POLE		
R	CLEARANCE BAR		
AGGREGATE TOTAL		150.00	131.33



CLAYTON Signs

5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

BUILDING S08N 144 REGULAR	SITE PLAN DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR	ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY ACCOUNT REP. BEN HOLLIDAY DRAWING DATE MAY 4 2011 REVISION DATE	STORE NUMBER 2927	STORE ADDRESS CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014

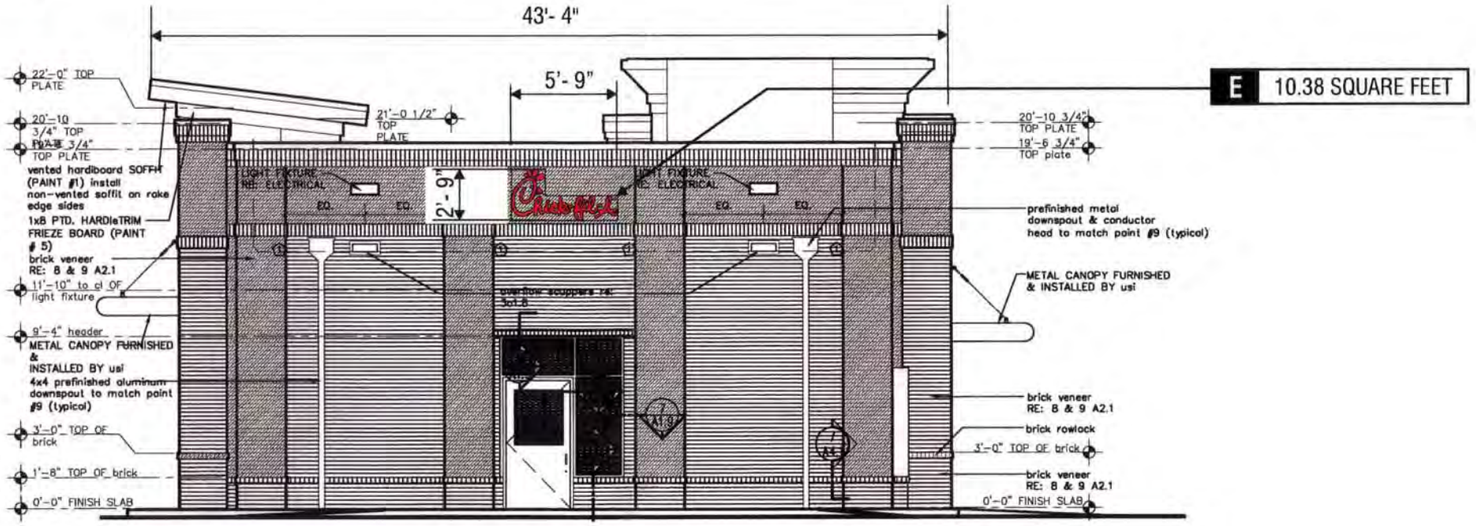
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SITE PLAN



FRONT PLAYGROUND ELEVATION

SCALE - 1/8" = 1'- 0"



REAR ELEVATION

SCALE - 1/8" = 1'- 0"

CLAYTON Signs
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Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

BUILDING S08N 144 REGULAR	BUILDING ELEVATIONS DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR	ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY ACCOUNT REP. BEN HOLLIDAY DRAWING DATE MAY 4 2011 REVISION DATE	STORE NUMBER 2927	STORE ADDRESS CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014

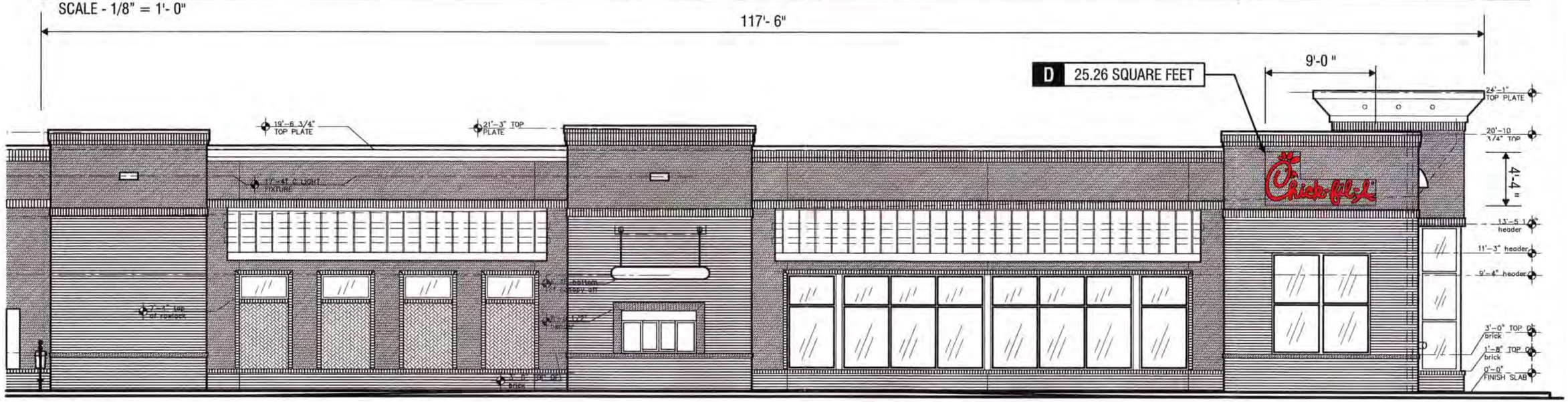
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BUILDING ELEVATIONS



ENTRY SIDE ELEVATION

SCALE - 1/8" = 1'- 0"



DRIVE-THRU SIDE ELEVATION

SCALE - 1/8" = 1'- 0"

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BUILDING S08N 144 REGULAR

BUILDING ELEVATIONS

DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR

ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED

DRAWN BY BEN HOLLIDAY
ACCOUNT REP. BEN HOLLIDAY
DRAWING DATE MAY 4 2011
REVISION DATE

STORE NUMBER 2927

STORE ADDRESS
CHICK-FIL-A
NORTHWEST HIGHWAY
CRYSTAL LAKE, IL 60014

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BUILDING ELEVATIONS

SPECIFICATIONS

CABINET
ALUMINUM CABINET HAS STEEL FRAME WITH .080 ALUMINUM CLADDING, RETAINERS AND FILLER.
CHICK-FIL-A ICON
ACRYLIC FACES DECORATED WITH TRANSLUCENT VINYL FILM ON SURFACE OF ACRYLIC. FACES ARE BACKLIT BY HIGH OUTPUT FLUORESCENT LAMPS SPACED EVENLY ON 12" CENTERS.
DECORATIVE SKIRT
SKIRT HAS STEEL FRAME WITH .080 ALUMINUM CLADDING.
READER BOARD
ALUMINUM CONSTRUCTION CABINET WITH ACRYLIC FACES BACKLIT BY HIGH OUTPUT FLUORESCENT LAMPS SPACED EVENLY ON 12" CENTERS. TRACK ACCOMMODATES WAGNER ZIP LETTERS.

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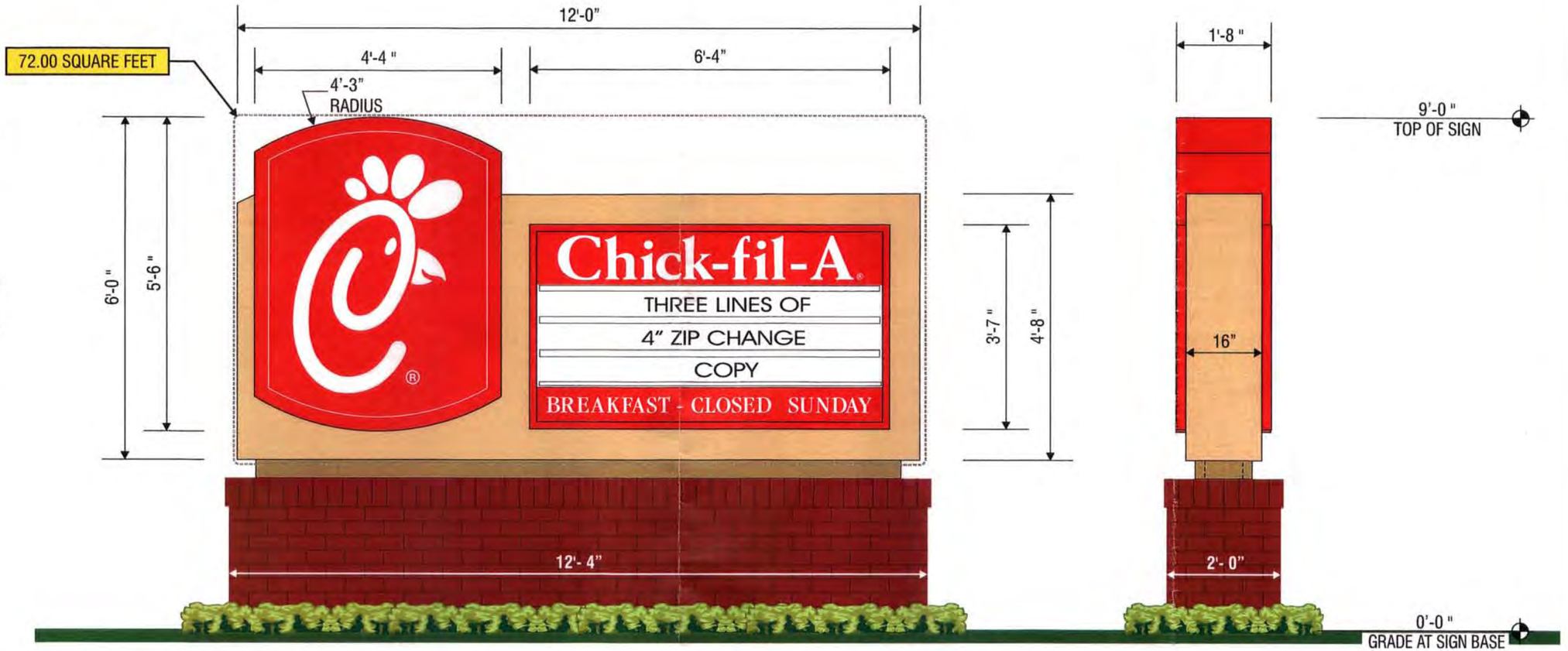
ALUMINUM SURFACES
GRIPGARD #503 RED GLOSS
FLEX FACES
230-53 CARDINAL RED TRANSLUCENT VINYL FILM

ACRYLIC FACES
7328 WHITE ACRYLIC

ALUMINUM SURFACES
PAINTED TO MATCH CUNNINGHAM TAN BRICK

MASONRY TO MATCH THE BUILDING

MASONRY WORK AND CONCRETE PAD FOR MASONRY WORK IS FURNISHED BY THE GENERAL CONTRACTOR SIGN FOUNDATION IS FURNISHED BY CLAYTON SIGNS, INC.



ELEVATION
SCALE - ½" = 1'- 0"

END VIEW
SCALE - ½" = 1'- 0"

CLAYTON Signs
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404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE 2	DOUBLE-FACED INTERNALLY-ILLUMINATED MONUMENT SIGN AGGREGATE SQUARE FOOTAGE - 72.00 SQUARE FEET DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR	ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY ACCOUNT REP. BEN HOLLIDAY DRAWING DATE MAY 4 2011 REVISION DATE	STORE NUMBER 2927	STORE ADDRESS CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	LOCATION A

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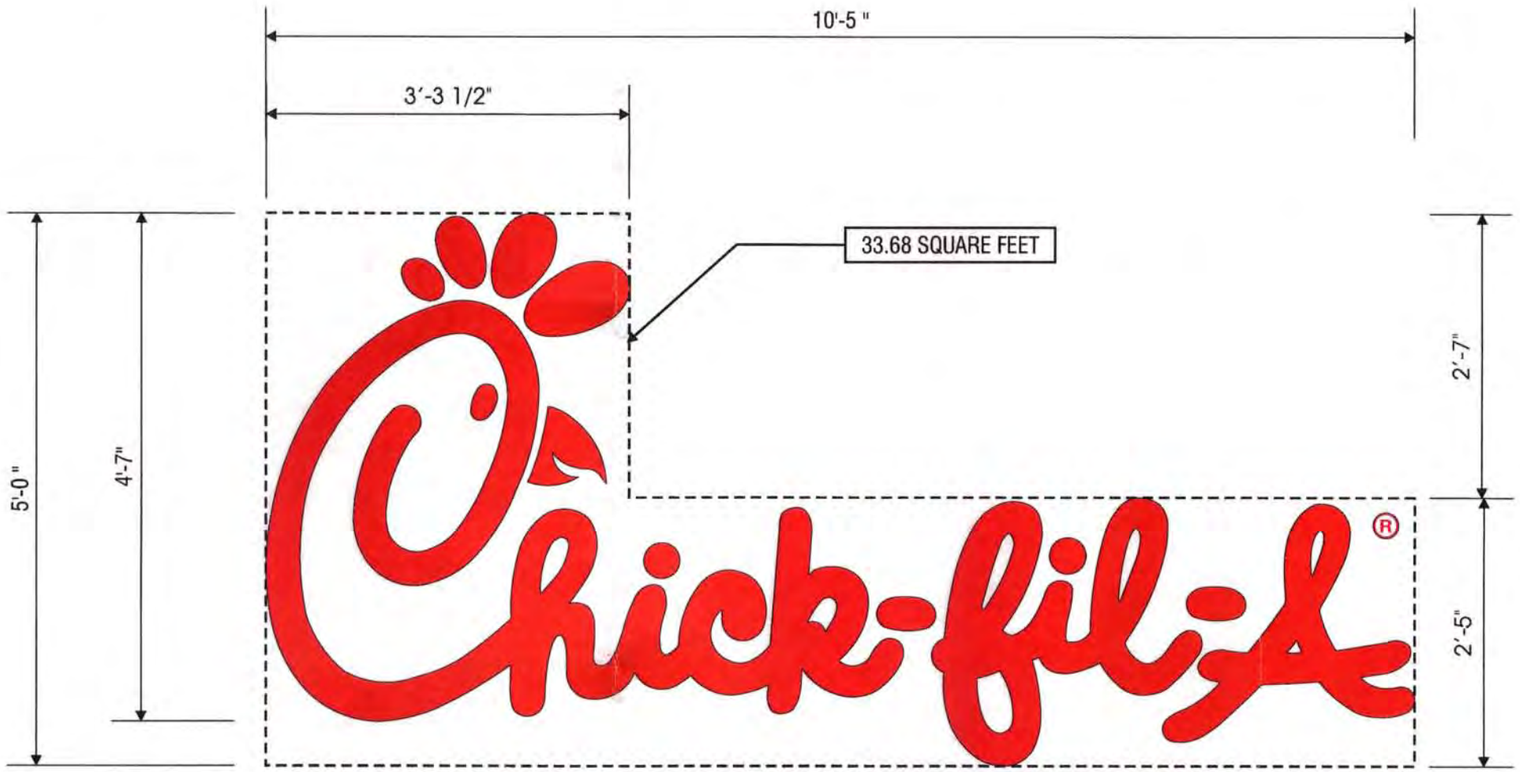
SPECIFICATIONS

CHICK-FIL-A SCRIPT LETTERS
LETTERS ARE LED-ILLUMINATED
CHANNEL LETTERS MOUNTED
ON ALUMINUM SURFACE OF BUILDING
WITH TRANSFORMERS REMOTELY
LOCATED BEHIND THE WALL IN
UL APPROVED TRANSFORMER BOXES.
FACES ARE 3/16" ACRYLIC
RETURNS ARE .063 ALUMINUM
BACKS ARE .080 ALUMINUM
ALL RETURNS ARE ARC-WELDED TO
LETTER BACKS

CHANNEL LETTER FACES
2793 RED ACRYLIC
TRIMCAP RETAINER-
1" RED JEWELITE TRIMCAP

ALUMINUM RETURNS
PAINTED MATTHEWS
BRUSHED ALUMINUM

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and Bears the Mark:



ELEVATION

SCALE - 3/4" = 1'- 0"

CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED		STORE NUMBER	STORE ADDRESS		LOCATION
3C	LED-ILLUMINATED CHANNEL LETTER WALL SIGN		DRAWN BY BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	THIS DRAWING IS AN ORIGINAL, UNPUBLISHED DESIGN CREATED BY CLAYTON SIGNS, INC. IT IS NOT TO BE REPRODUCED, CHANGED, OR EXHIBITED TO ANYONE OUTSIDE OF YOUR COMPANY IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM THE OWNER OF CLAYTON SIGNS, INC.. ANY SUCH ACTIONS MAY BE SUBJECT TO LEGAL ACTION IN A COURT OF LAW.	B
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY				
			DRAWING DATE MAY 4 2011				
			REVISION DATE				

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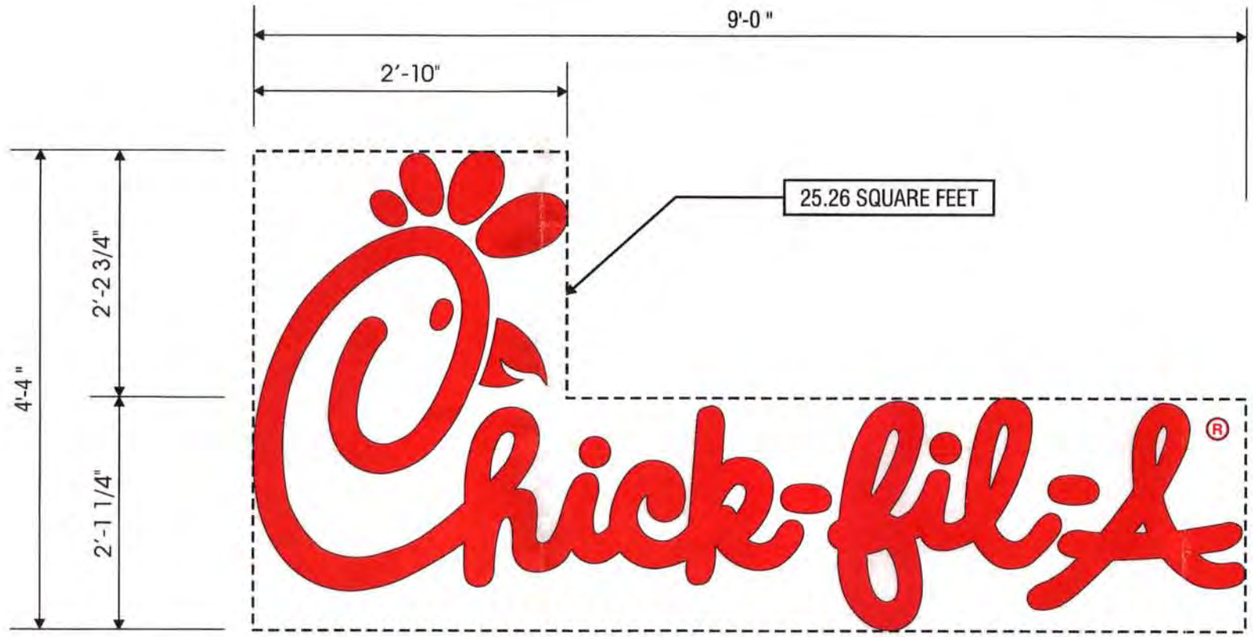
SPECIFICATIONS

CHICK-FIL-A SCRIPT LETTERS
LETTERS ARE LED-ILLUMINATED
CHANNEL LETTERS MOUNTED
ON ALUMINUM SURFACE OF BUILDING
WITH TRANSFORMERS REMOTELY
LOCATED BEHIND THE WALL IN
UL APPROVED TRANSFORMER BOXES.
FACES ARE 3/16" ACRYLIC
RETURNS ARE .063 ALUMINUM
BACKS ARE .080 ALUMINUM
ALL RETURNS ARE ARC-WELDED TO
LETTER BACKS

CHANNEL LETTER FACES
2793 RED ACRYLIC
TRIMCAP RETAINER-
1" RED JEWELITE TRIMCAP

ALUMINUM RETURNS
PAINTED MATTHEWS
BRUSHED ALUMINUM

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ELEVATION

SCALE - 3/4" = 1'- 0"

CLAYTON Signs
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404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE		STORE NUMBER		LOCATION
3B	LED-ILLUMINATED CHANNEL LETTER WALL SIGN	120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY ACCOUNT REP. BEN HOLLIDAY DRAWING DATE MAY 4 2011 REVISION DATE	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	C,D
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR					

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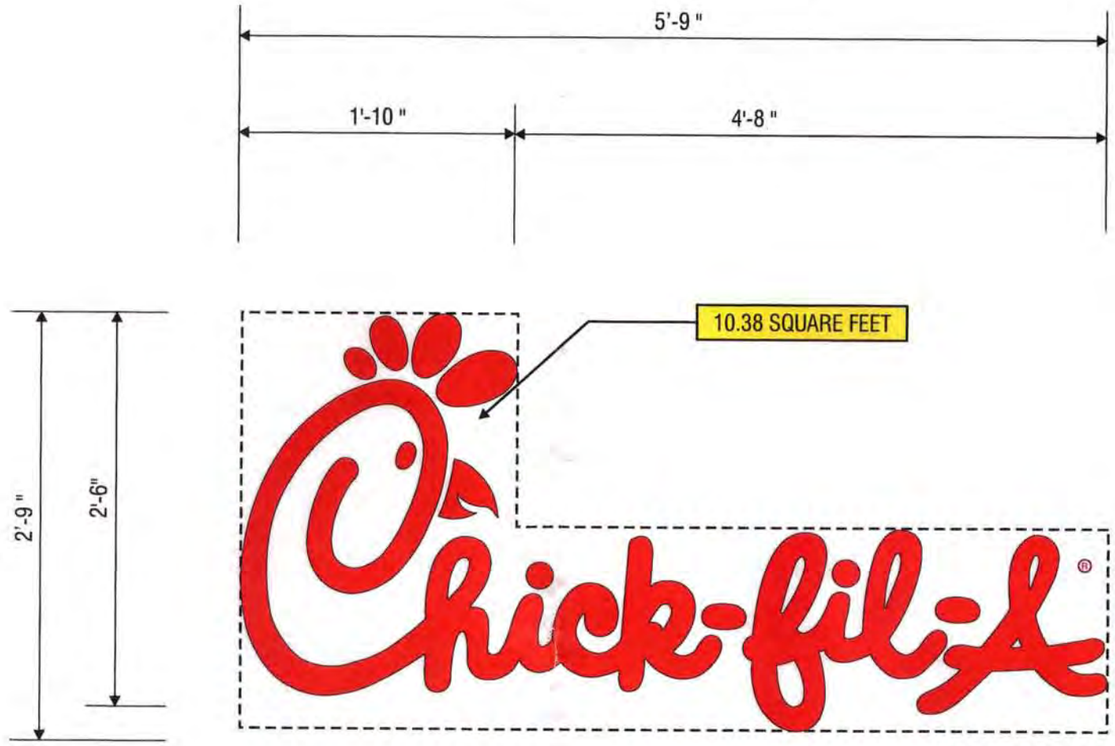
SPECIFICATIONS

CHICK-FIL-A SCRIPT LETTERS
LETTERS ARE LED-ILLUMINATED
CHANNEL LETTERS MOUNTED
ON ALUMINUM SURFACE OF BUILDING
WITH TRANSFORMERS REMOTELY
LOCATED BEHIND THE WALL IN
UL APPROVED TRANSFORMER BOXES.
FACES ARE 3/16" ACRYLIC
RETURNS ARE .063 ALUMINUM
BACKS ARE .080 ALUMINUM
ALL RETURNS ARE ARC-WELDED TO
LETTER BACKS

CHANNEL LETTER FACES
2793 RED ACRYLIC
TRIMCAP RETAINER-
1" RED JEWELITE TRIMCAP

ALUMINUM RETURNS
PAINTED MATTHEWS
BRUSHED ALUMINUM

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ELEVATION

SCALE - 1" = 1'- 0"

CLAYTON Signs
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website - www.claytonsigns.com

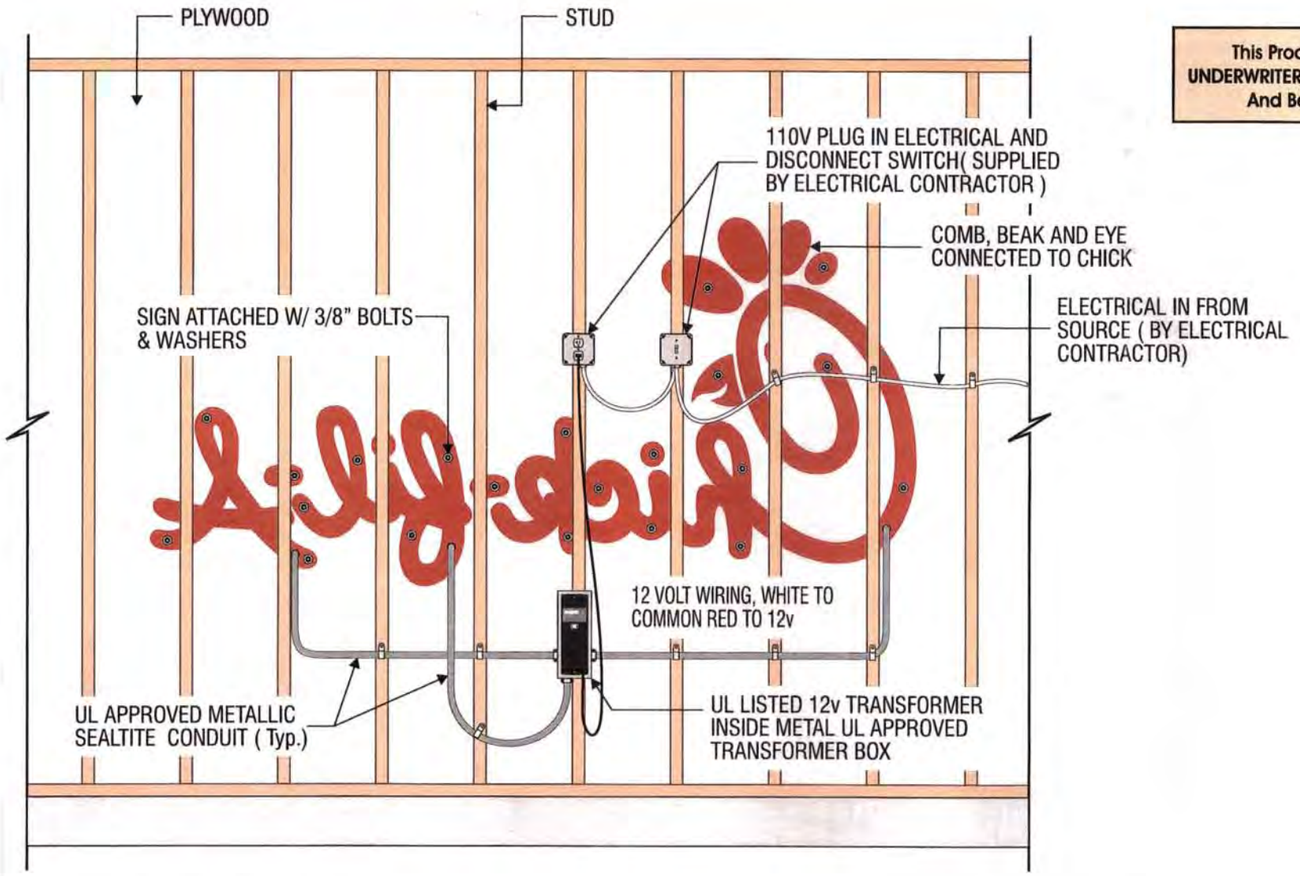
SIGN TYPE **3A**	LED-ILLUMINATED CHANNEL LETTER WALL SIGN SQUARE FOOTAGE (SIX LINES) - 10.38 SQUARE FEET SQUARE FOOTAGE (RECTANGULAR) - 25.67 SQUARE FEET DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR	ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY ACCOUNT REP. BEN HOLLIDAY DRAWING DATE MAY 4 2011 REVISION DATE	STORE NUMBER **2927**	STORE ADDRESS CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	LOCATION **E**

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SPECIFICATIONS

CHICK-FIL A SCRIPT LOGO SIGNS ARE LED ILLUMINATED CHANNEL LETTERS MOUNTED ON SURFACE OF BUILDING WITH TRANSFORMERS REMOTELY LOCATED BEHIND THE WALL IN UL APPROVED TRANSFORMER BOXES
FACES ARE 3/16" THICK ACRYLIC. RETURNS ARE .050" ALUM. ARC WELDED TO .063" LETTER BACKS

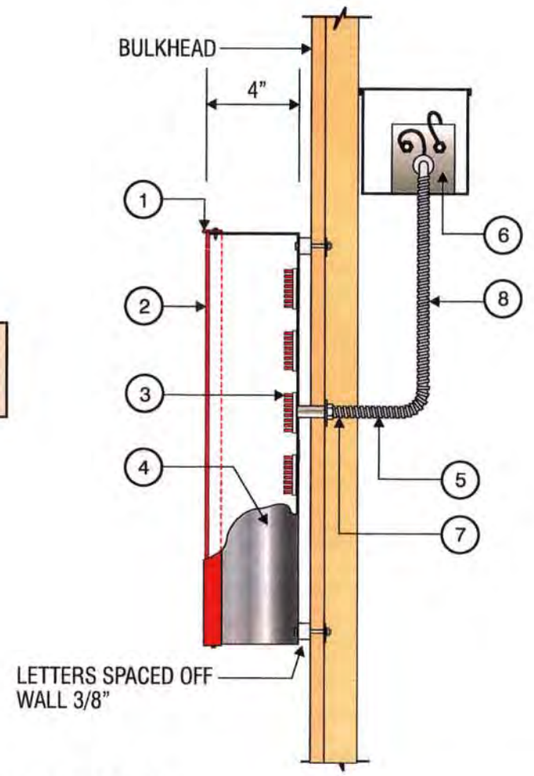
THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 600 OF THE NATIONAL ELECTRIC CODE AND/OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING AND BONDING OF SIGN.



CFA CHANNEL LETTER WIRING DIAGRAM (BEHIND WALL VIEW)

SCALE: ½"=1'-0"

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And Bears the Mark: UL



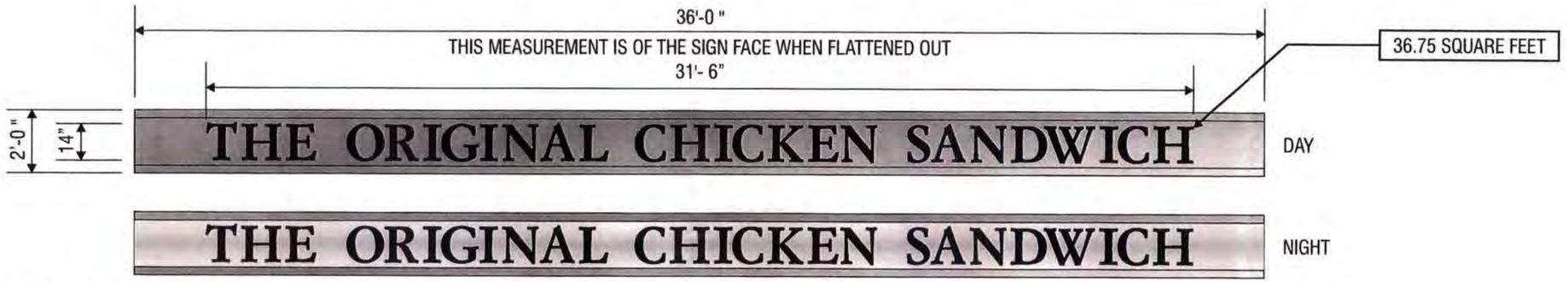
SECTION DETAIL

NOT TO SCALE

1. 1" RED JEWELITE RETAINER CAP
2. 3/16" THICK #2793 RED ACRYLIC LETTER FACES
3. DURALED (UL APPROVED) RED LED MODULES MODEL #L33010-12
4. 4"DEEP, .050" ALUMINUM RETURN WELDED TO .063" LTR. BACKS AND PAINTED TO MATCH BUILDING COLOR
5. 120 VOLT CIRCUIT TO SIGN FULLY ENCLOSED REMOTE-MOUNTED JUSTIN INC. TRANSFORMER
6. (UL APPROVED) MODEL #C2240-12
7. U.L. APPROVED PASS-THRUS
8. UL APPROVED GTO WIRE INSIDE FLEX CONDUIT

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LED-ILLUMINATED CHANNEL LETTER WALL SIGN WALL MOUNTING DETAIL DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR	ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY ACCOUNT REP. BEN HOLLIDAY DRAWING DATE MAY 4 2011 REVISION DATE	STORE NUMBER 2927	STORE ADDRESS CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	THIS DRAWING IS AN ORIGINAL, UNPUBLISHED DESIGN CREATED BY CLAYTON SIGNS, INC. IT IS NOT TO BE REPRODUCED, CHANGED, OR EXHIBITED TO ANYONE OUTSIDE OF YOUR COMPANY IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM THE OWNER OF CLAYTON SIGNS, INC.. ANY SUCH ACTIONS MAY BE SUBJECT TO LEGAL ACTION IN A COURT OF LAW. ©2011 ALL RIGHTS RESERVED



ELEVATION

SCALE - 1/4" = 1'- 0"

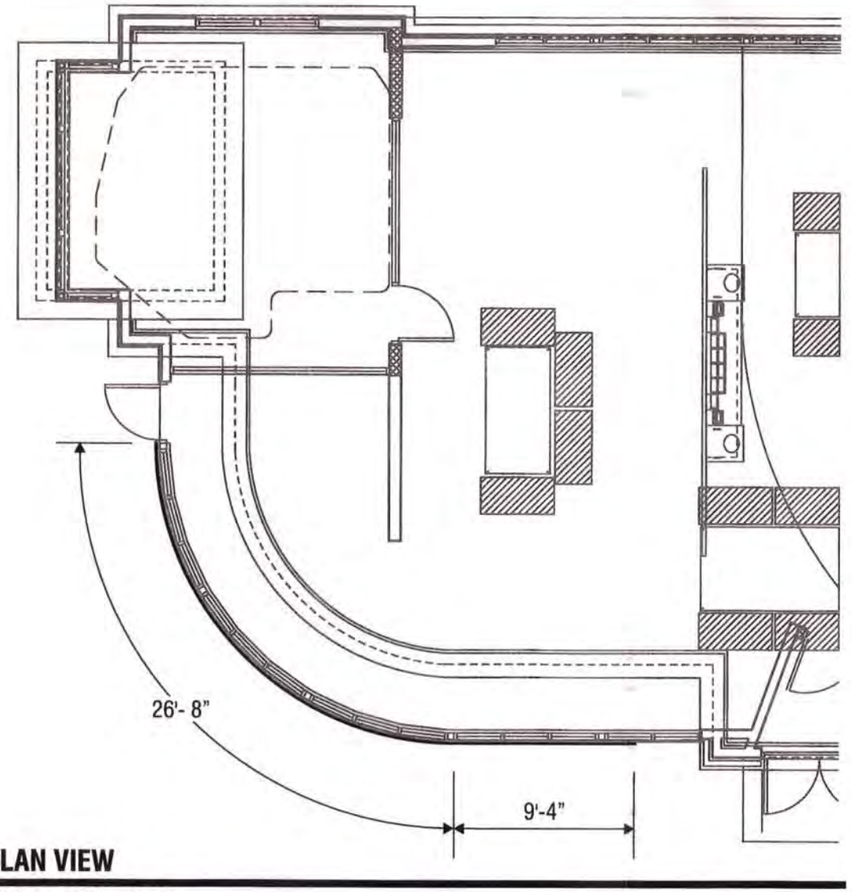
SPECIFICATIONS

BACKGROUND PANEL
THE BACKGROUND PANEL IS ALPOLIC COMPOSITE MATERIAL SHAPED TO MATCH THE CURVE OF THE BUILDING.
GRAPHICS
3/4" DEEP DIMENSIONAL LETTERS MOUNTED ON BACKGROUND PANEL WITH ½"STAND-OFF

ALUMINUM SURFACES
MATTHEWS BRUSHED ALUMINUM PAINT

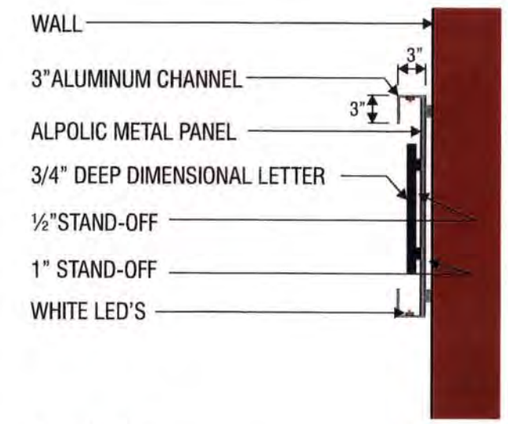
LETTERS
BLACK SINTRA

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PLAN VIEW

SCALE - 1/8" = 1'- 0"



END VIEW

SCALE - 3/4" = 1'- 0"

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Lake City, GA 30260
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website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE		STORE NUMBER	STORE ADDRESS		LOCATION
4A	SINGLE-FACED EXTERNALLY-ILLUMINATED TAG LINE SIGN	120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	THIS DRAWING IS AN ORIGINAL, UNPUBLISHED DESIGN CREATED BY CLAYTON SIGNS, INC. IT IS NOT TO BE REPRODUCED, CHANGED, OR EXHIBITED TO ANYONE OUTSIDE OF YOUR COMPANY IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM THE OWNER OF CLAYTON SIGNS, INC.. ANY SUCH ACTIONS MAY BE SUBJECT TO LEGAL ACTION IN A COURT OF LAW. ©2011 ALL RIGHTS RESERVED	F
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY				
			DRAWING DATE MAY 4 2011				
			REVISION DATE				

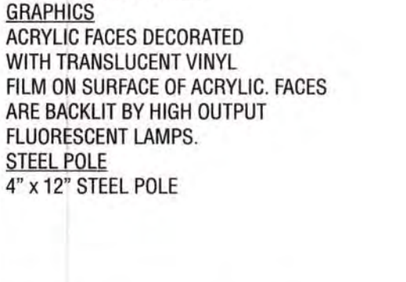
SPECIFICATIONS

CABINET
ALUMINUM CONSTRUCTION CABINET
.080 ALUMINUM CLADDING,
RETAINERS AND FILLER.
GRAPHICS
ACRYLIC FACES DECORATED
WITH TRANSLUCENT VINYL
FILM ON SURFACE OF ACRYLIC. FACES
ARE BACKLIT BY HIGH OUTPUT
FLUORESCENT LAMPS.
STEEL POLE
4" x 12" STEEL POLE

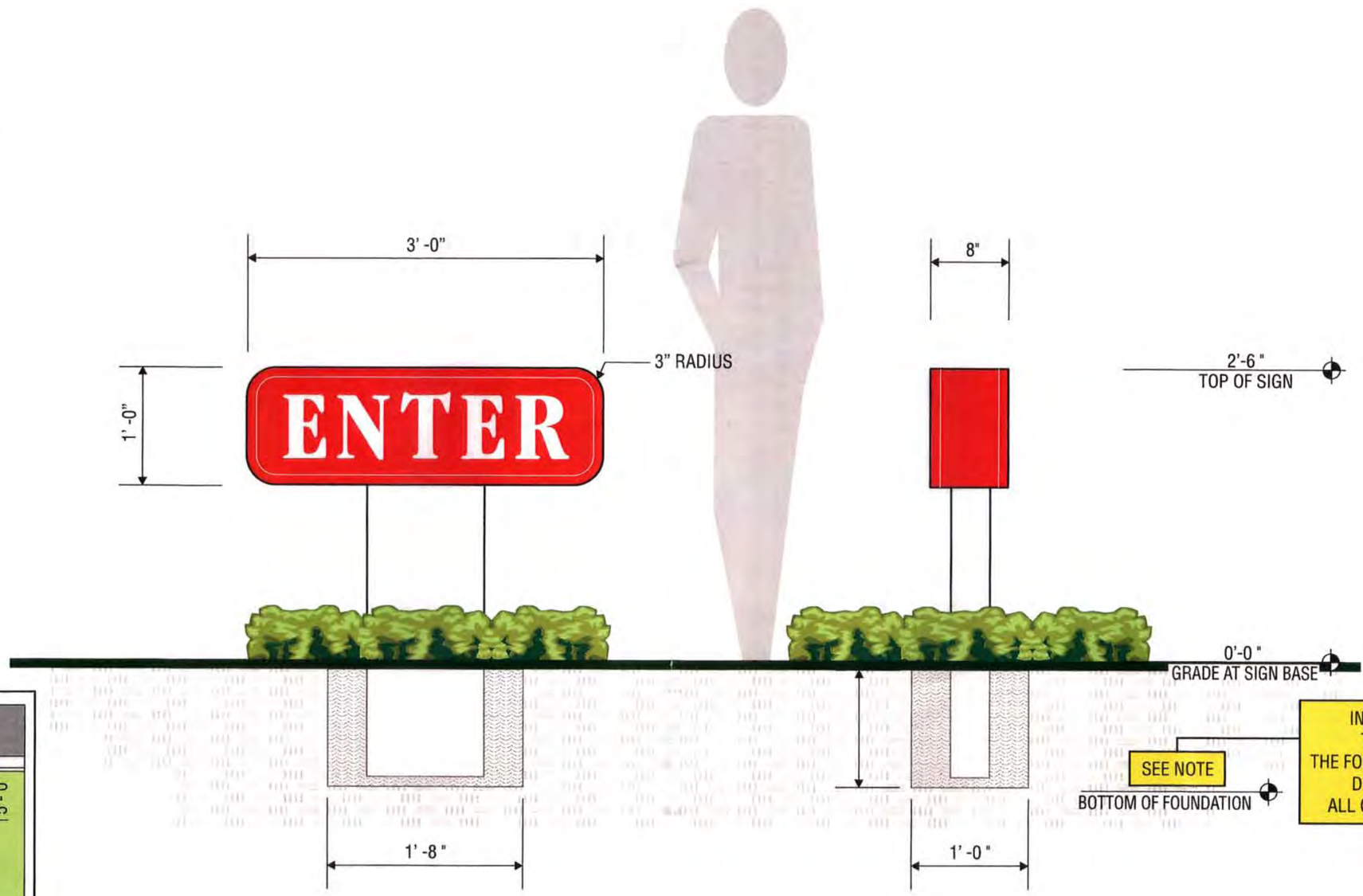
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ALUMINUM SURFACES
GRIPGARD #503 RED GLOSS
ACRYLIC FACES
230-53 CARDINAL RED
TRANSLUCENT VINYL FILM

ALUMINUM SURFACES
RST584 AKZO NOBEL GLOSS
ACRYLIC FACES
7328 WHITE ACRYLIC



TRY TO KEEP DIRECTIONALS 5'-0"
FROM CURBS WHEREVER POSSIBLE
TO INSURE VEHICLES DON'T HIT THEM



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Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE						
5A	DOUBLE-FACED INTERNALLY-ILLUMINATED DIRECTIONAL SIGN SQUARE FOOTAGE - 3.00 SQUARE FEET DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR	ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY ACCOUNT REP. BEN HOLLIDAY DRAWING DATE MAY 4 2011 REVISION DATE	STORE NUMBER 2927	STORE ADDRESS CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	LOCATION G

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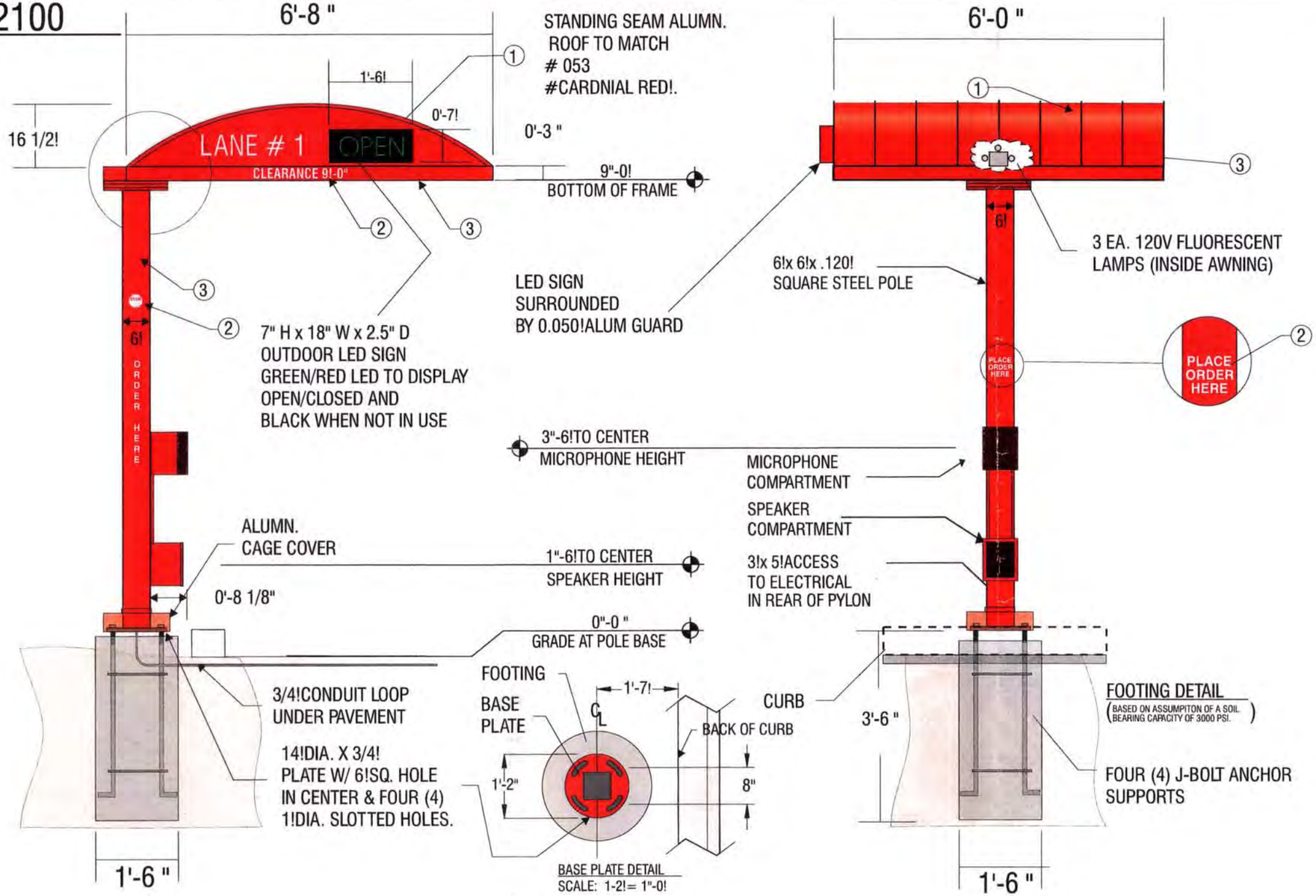
CANOPY SYSTEM #CP-2100

COLOR PLACEMENT:

1. STANDING SEAM KYNAR FINISH TO MATCH#CARDINAL RED!
2. 3M HP VINYL#GLOSS WHITE!
3. TO MATCH # 053#CARDINAL RED!

ALL PAINT: AKZO - NOBEL #GRIP GUARD!
ACRYLIC POLYURETHANE

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DRIVE UP VIEW

SCALE - ½! = 1'- 0"

FRONT VIEW

SCALE - ½! = 1'- 0"

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website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED		STORE NUMBER	STORE ADDRESS		LOCATION
9A	INTERNALLY-ILLUMINATED MENU CANOPY		DRAWN BY BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	THIS DRAWING IS AN ORIGINAL, UNPUBLISHED DESIGN CREATED BY CLAYTON SIGNS, INC. IT IS NOT TO BE REPRODUCED, CHANGED, OR EXHIBITED TO ANYONE OUTSIDE OF YOUR COMPANY IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM THE OWNER OF CLAYTON SIGNS, INC. ANY SUCH ACTIONS MAY BE SUBJECT TO LEGAL ACTION IN A COURT OF LAW.	H1
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP BEN HOLLIDAY				
			DRAWING DATE MAY 4 2011				
			REVISION DATE				

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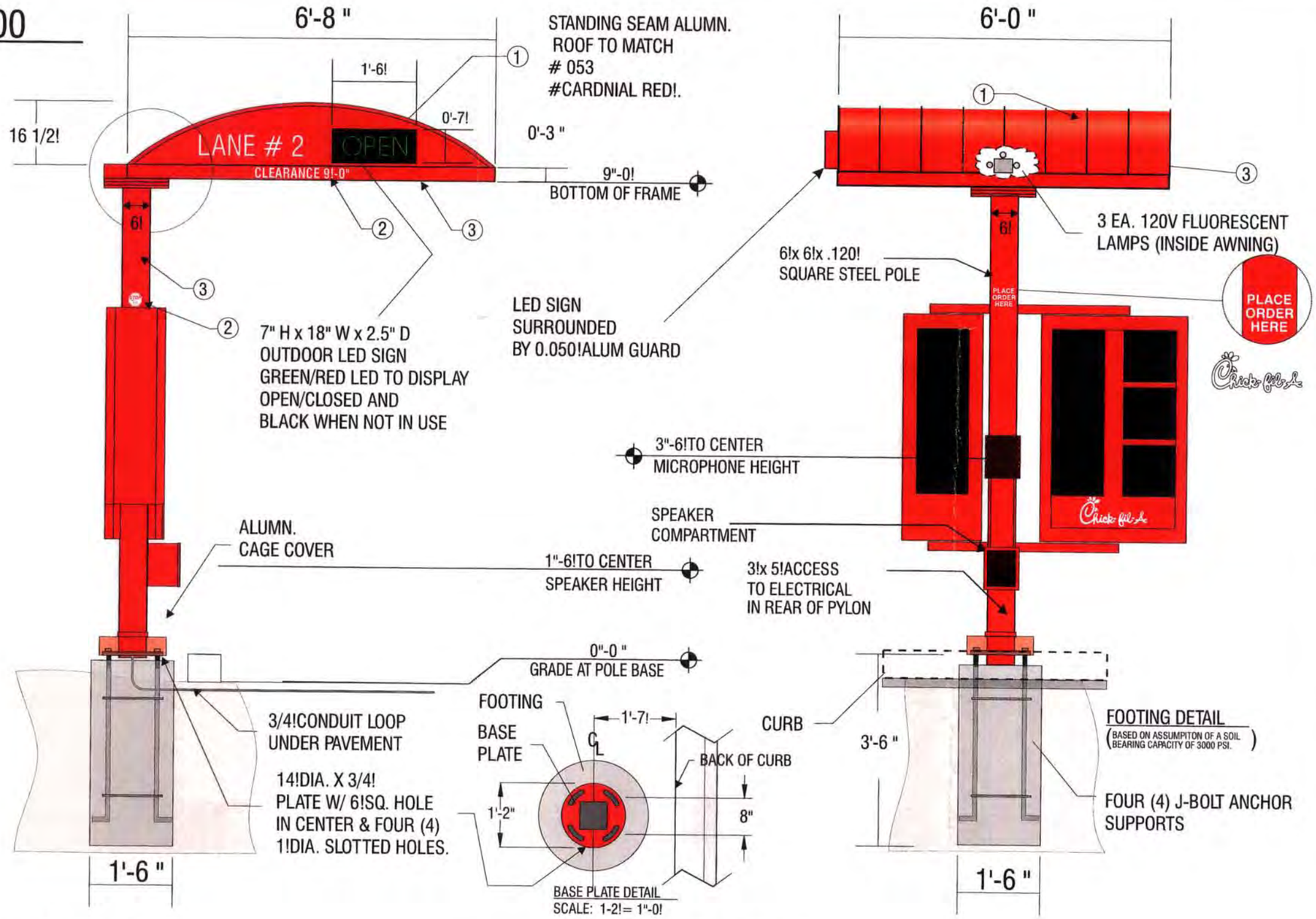
CANOPY SYSTEM #CP-2100

COLOR PLACEMENT:

1. STANDING SEAM KYNAR FINISH TO MATCH#CARDINAL RED!
2. 3M HP VINYL#GLOSS WHITE!
3. TO MATCH # 053#CARDINAL RED!

ALL PAINT: AKZO - NOBEL #GRIP GUARD!
ACRYLIC POLYURETHANE

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DRIVE UP VIEW

SCALE - ½! = 1'- 0"

FRONT VIEW

SCALE - ½! = 1'- 0"

CLAYTON Signs
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Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE		STORE NUMBER	STORE ADDRESS		LOCATION
9A	INTERNALLY-ILLUMINATED MENU CANOPY	120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014		H2
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP BEN HOLLIDAY				
			DRAWING DATE MAY 4 2011				
			REVISION DATE				

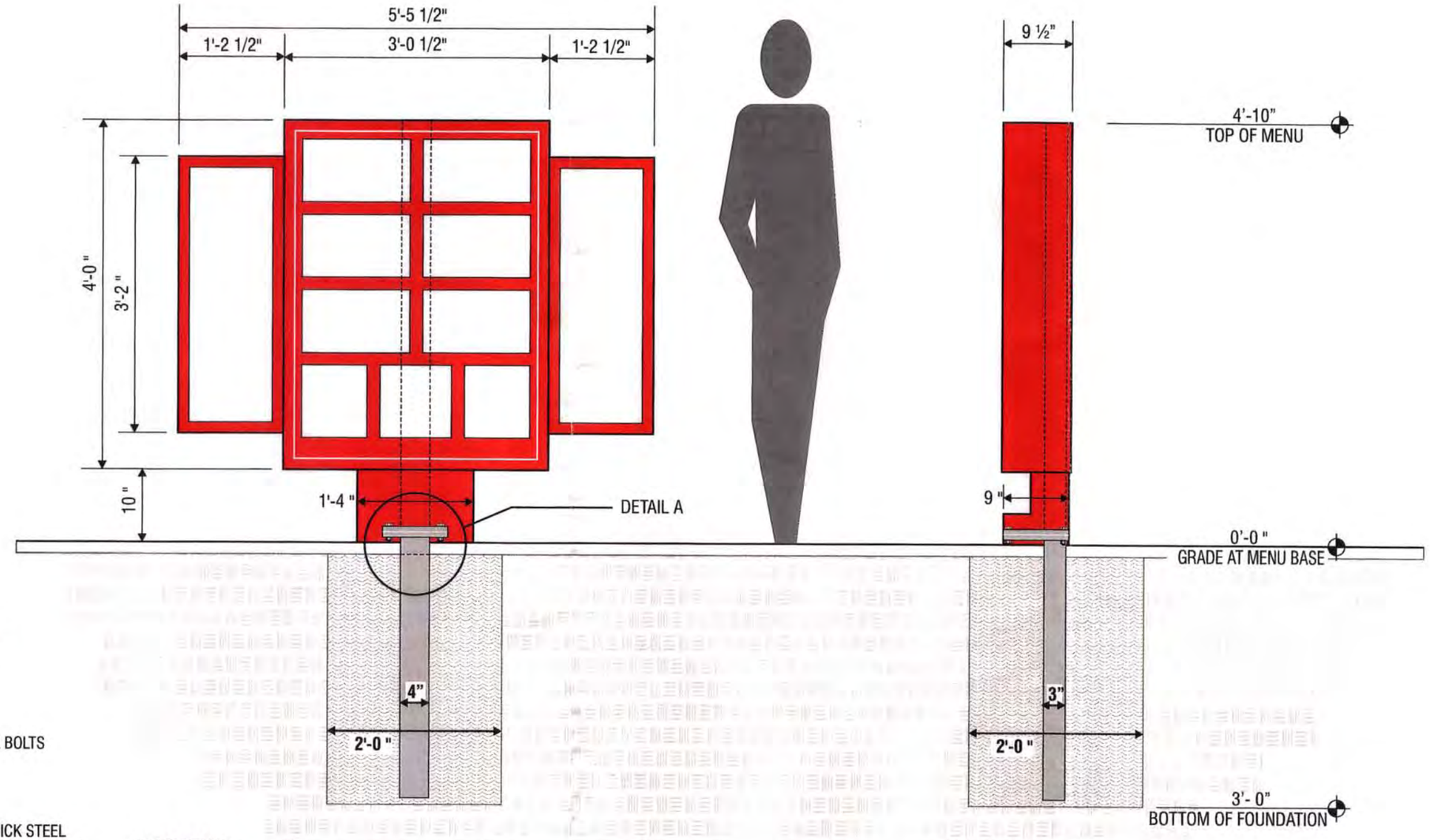
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SPECIFICATIONS

CABINET
ALUMINUM CONSTRUCTION CABINET
WITH HINGED LEXAN COVERS
FACES
FACES ARE ACRYLIC WITH CLEAR WINDOWS
FOR COLOR TRANSPARENCIES PROVIDED
BY OTHERS
FOUNDATION
SIGN IS INSTALLED WITH FOUR (4) ANCHOR
BOLTS INTO CONCRETE FOUNDATION

This Product is Listed by
UNDERWRITERS LABORATORIES, INC.
and Bears the Mark:

METAL SURFACES
GRIPGARD #503 RED GLOSS

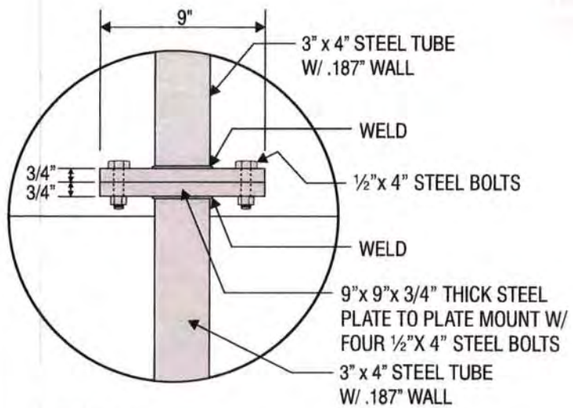


ELEVATION

SCALE - 3/4" = 1'- 0"

END VIEW

SCALE - 3/4" = 1'- 0"



DETAIL A

SCALE - 1 ½"= 1'- 0"

CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE		STORE NUMBER	STORE ADDRESS		LOCATION
9B	INTERNALLY-ILLUMINATED DRIVE-THRU MENU	120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	THIS DRAWING IS AN ORIGINAL, UNPUBLISHED DESIGN CREATED BY CLAYTON SIGNS, INC. IT IS NOT TO BE REPRODUCED, CHANGED, OR EXHIBITED TO ANYONE OUTSIDE OF YOUR COMPANY IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM THE OWNER OF CLAYTON SIGNS, INC.. ANY SUCH ACTIONS MAY BE SUBJECT TO LEGAL ACTION IN A COURT OF LAW.	I
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY				
			DRAWING DATE MAY 4 2011				
			REVISION DATE				

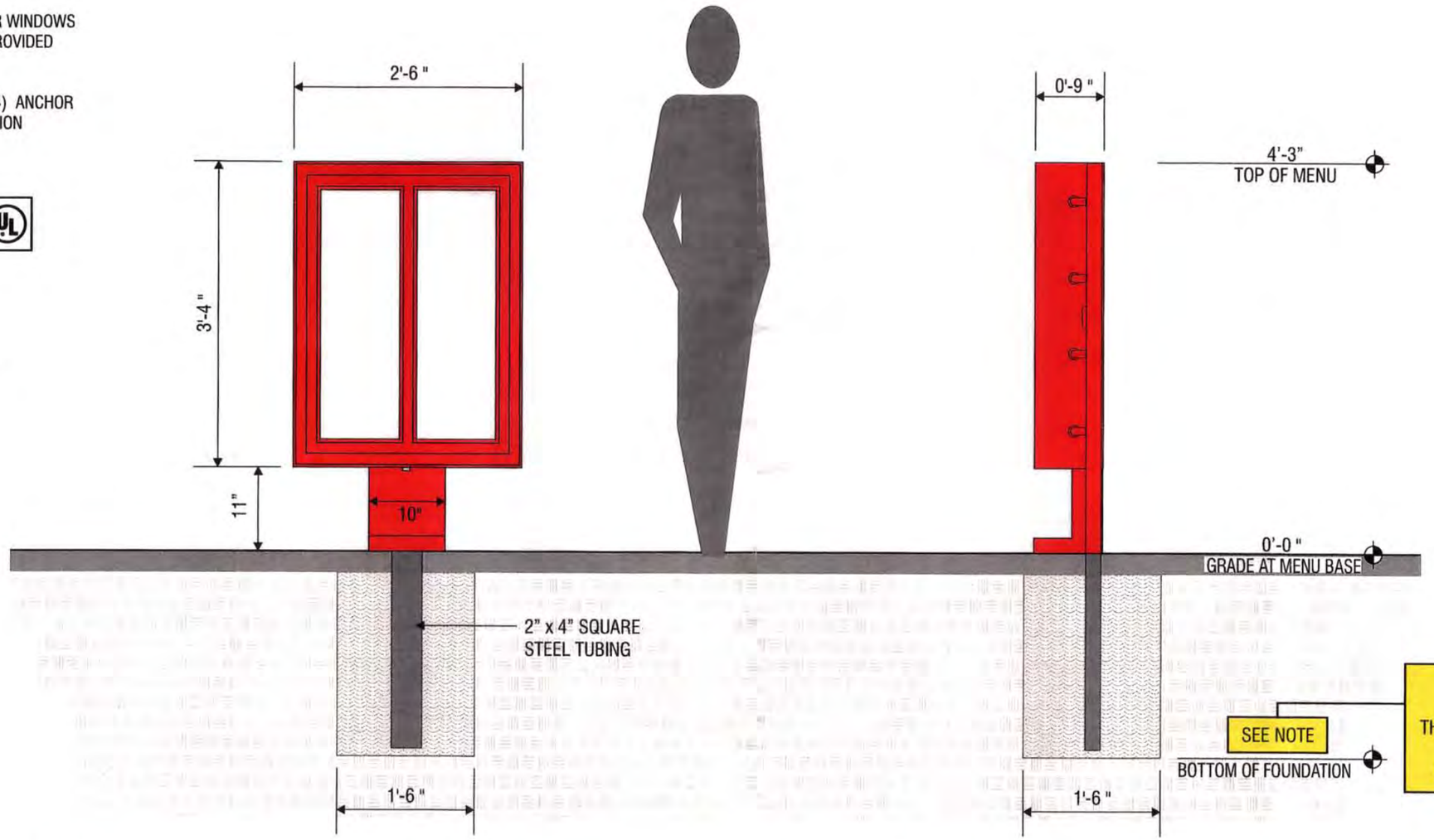
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SPECIFICATIONS

CABINET
ALUMINUM CONSTRUCTION CABINET
WITH HINGED LEXAN COVERS
FACES
FACES ARE ACRYLIC WITH CLEAR WINDOWS
FOR COLOR TRANSPARENCIES PROVIDED
BY OTHERS
FOUNDATION
SIGN IS INSTALLED WITH FOUR (4) ANCHOR
BOLTS INTO CONCRETE FOUNDATION

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METAL SURFACES
GRIPGARD #503 RED GLOSS

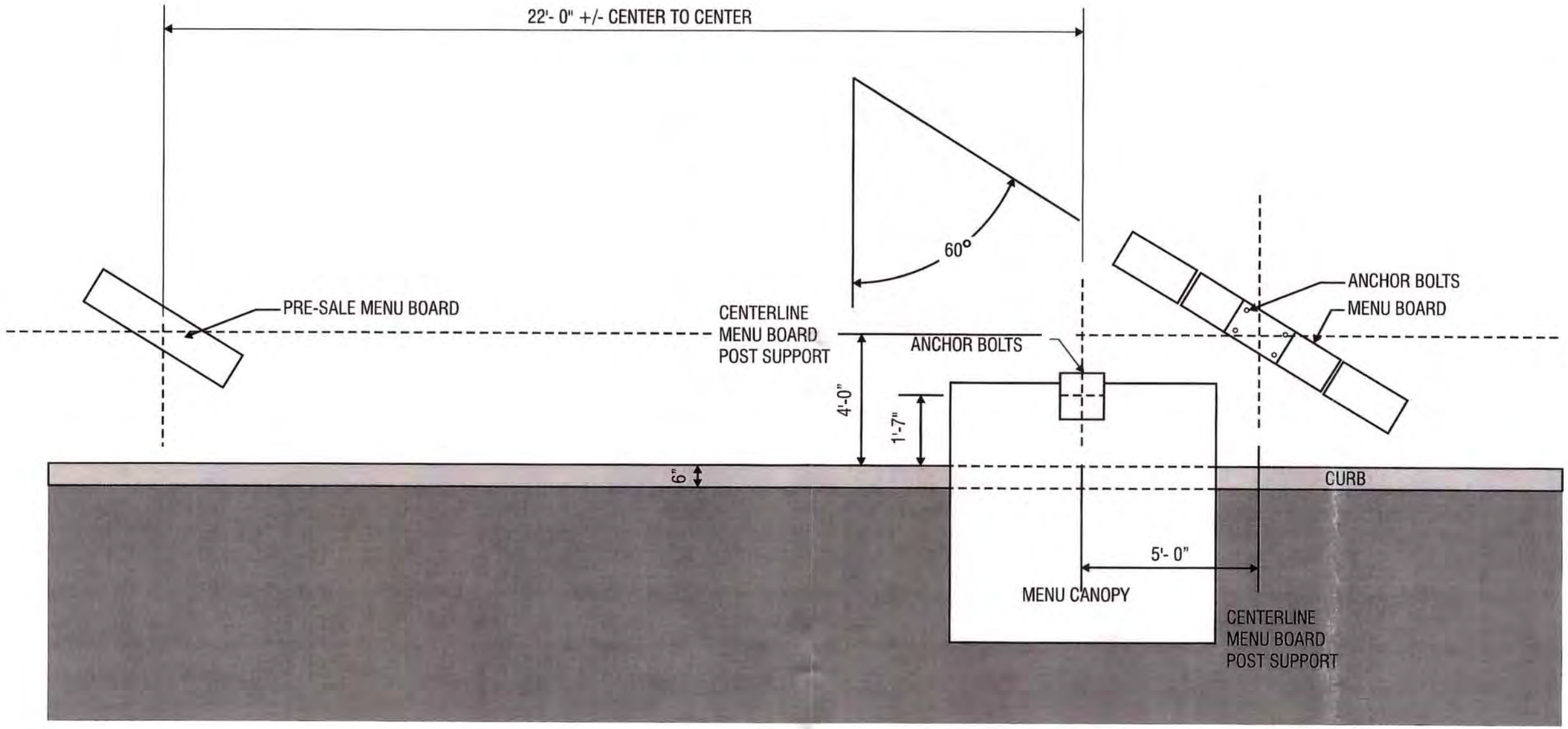


ELEVATION
SCALE - 3/4" = 1'- 0"

END VIEW
SCALE - 3/4" = 1'- 0"

CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE		STORE NUMBER	STORE ADDRESS		LOCATION
9B	INTERNALLY-ILLUMINATED PRE-SALE DRIVE-THRU MENU	120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	THIS DRAWING IS AN ORIGINAL, UNPUBLISHED DESIGN CREATED BY CLAYTON SIGNS, INC. IT IS NOT TO BE REPRODUCED, CHANGED, OR EXHIBITED TO ANYONE OUTSIDE OF YOUR COMPANY IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM THE OWNER OF CLAYTON SIGNS, INC.. ANY SUCH ACTIONS MAY BE SUBJECT TO LEGAL ACTION IN A COURT OF LAW. © 2011 ALL RIGHTS RESERVED	J
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY				
			DRAWING DATE MAY 4 2011				
			REVISION DATE				



PLAN VIEW

SCALE - 3/8" = 1'- 0"

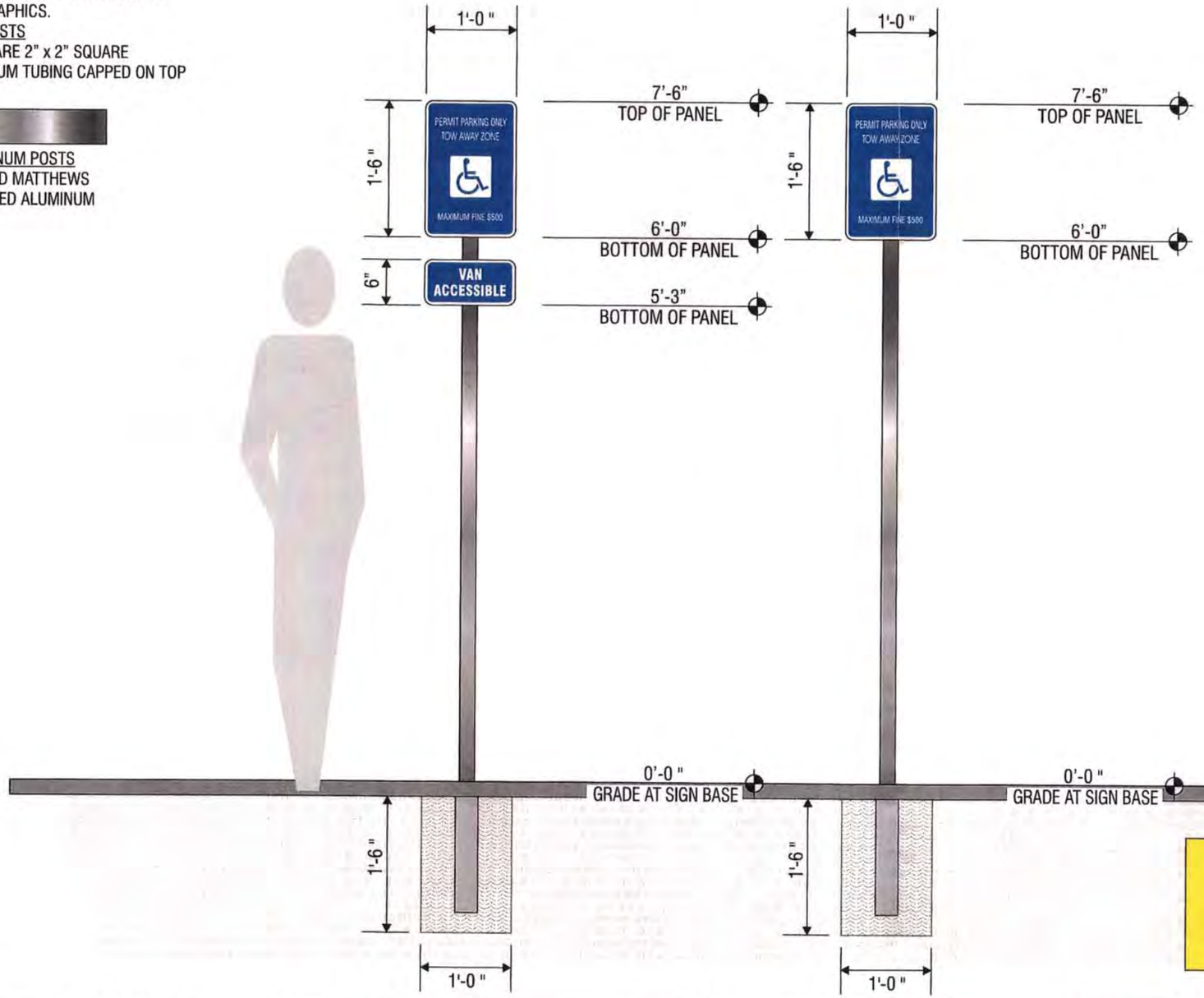
CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

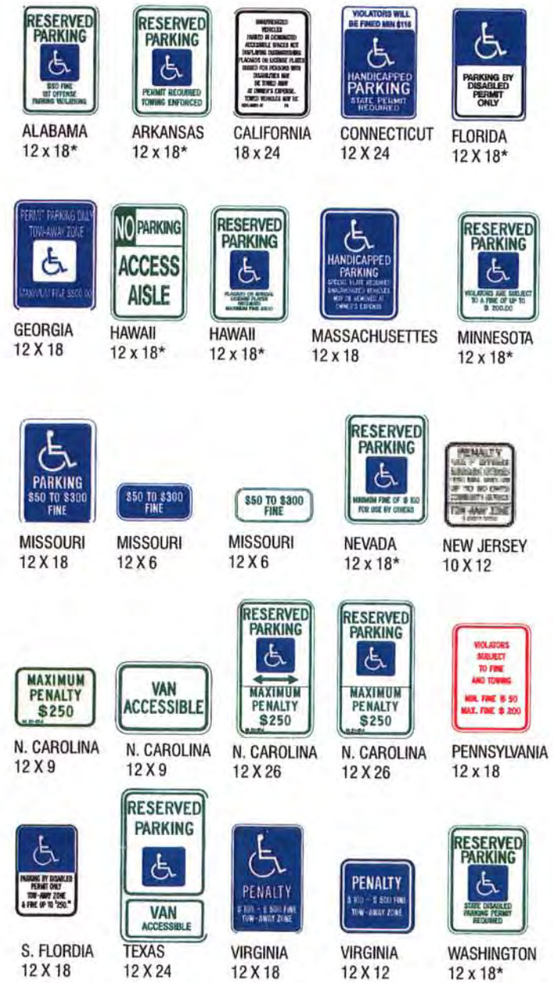
INSTALL DIAGRAM	DRIVE-THRU ORDERING STATION INSTALLATION DIAGRAM DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR	ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY ACCOUNT REP. BEN HOLLIDAY DRAWING DATE MAY 4 2011 REVISION DATE	STORE NUMBER 2927	STORE ADDRESS CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	THIS DRAWING IS AN ORIGINAL, UNPUBLISHED DESIGN CREATED BY CLAYTON SIGNS, INC. IT IS NOT TO BE REPRODUCED, CHANGED, OR EXHIBITED TO ANYONE OUTSIDE OF YOUR COMPANY IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM THE OWNER OF CLAYTON SIGNS, INC. ANY SUCH ACTIONS MAY BE SUBJECT TO LEGAL ACTION IN A COURT OF LAW. ©2011 ALL RIGHTS RESERVED

SPECIFICATIONS

SIGN PANELS
PANELS ARE .080 ALUMINUM
WITH REFLECTIVE BACKGROUND
AND GRAPHICS.
SIGN POSTS
POSTS ARE 2" x 2" SQUARE
ALUMINUM TUBING CAPPED ON TOP

ALUMINUM POSTS
PAINTED MATTHEWS
BRUSHED ALUMINUM





NOTE: IF THIS SIGN IS LOCATED ON THE SIDEWALK THEN IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INSTALL A PVC SLEEVE INTO THE CONCRETE WHEN THE SIDEWALK IS POURED PRIOR TO INSTALLATION OF THE SIGN' BY CLAYTON SIGNS.

CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE		STORE NUMBER		LOCATION
7A	SINGLE-FACED DOT REGULATORY TRAFFIC SIGNS	120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	K
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY			
			DRAWING DATE MAY 4 2011			
			REVISION DATE			

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SPECIFICATIONS

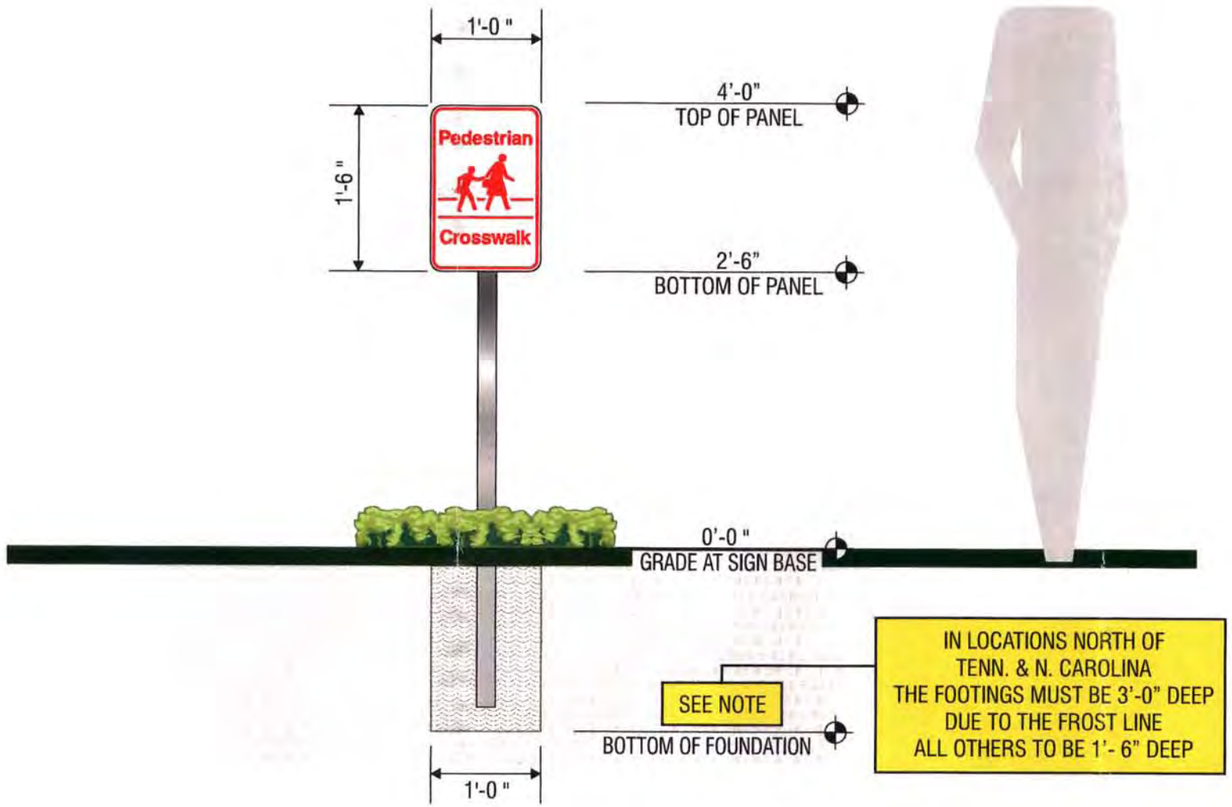
SIGN PANELS
PANELS ARE .080 ALUMINUM
WITH REFLECTIVE BACKGROUND
AND GRAPHICS.
SIGN POSTS
POSTS ARE 2" x 2" SQUARE
ALUMINUM TUBING CAPPED ON TOP

SIGN PANEL
RED REFLECTIVE

SIGN PANEL
WHITE REFLECTIVE

ALUMINUM POSTS
PAINTED MATTHEWS
BRUSHED ALUMINUM

NOTE: IF THIS SIGN IS LOCATED ON THE SIDEWALK THEN IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INSTALL A PVC SLEEVE INTO THE CONCRETE WHEN THE SIDEWALK IS POURED PRIOR TO INSTALLATION OF THE SIGN' BY CLAYTON SIGNS.





CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE **7E1**	SINGLE-FACED DOT REGULATORY TRAFFIC SIGNS	ALL ELECTRICAL SIGNS ARE **120 VOLTS** UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY	STORE NUMBER	STORE ADDRESS	LOCATION
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY	**2927**	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	**L**
			DRAWING DATE MAY 4 2011			
			REVISION DATE			

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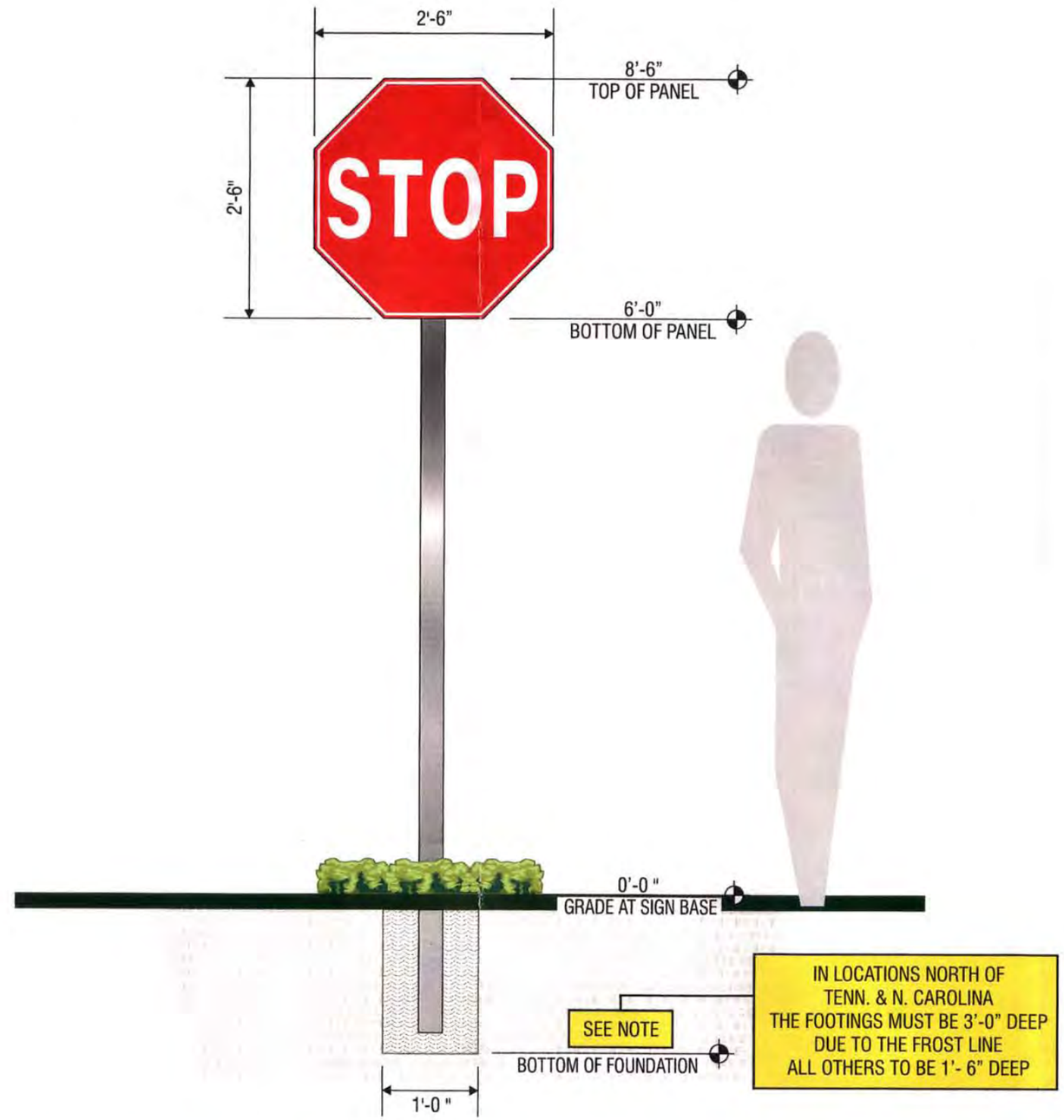
SPECIFICATIONS

SIGN PANELS
PANELS ARE .080 ALUMINUM
WITH REFLECTIVE BACKGROUND
AND GRAPHICS.
SIGN POSTS
POSTS ARE 3" x 3" SQUARE
ALUMINUM TUBING CAPPED ON TOP

SIGN PANEL
RED REFLECTIVE

SIGN PANEL
WHITE REFLECTIVE

ALUMINUM POSTS
PAINTED MATTHEWS
BRUSHED ALUMINUM



CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE		STORE NUMBER	STORE ADDRESS		LOCATION
7D	SINGLE-FACED DOT REGULATORY TRAFFIC SIGNS	120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014		M
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY				
			DRAWING DATE MAY 4 2011				
			REVISION DATE				

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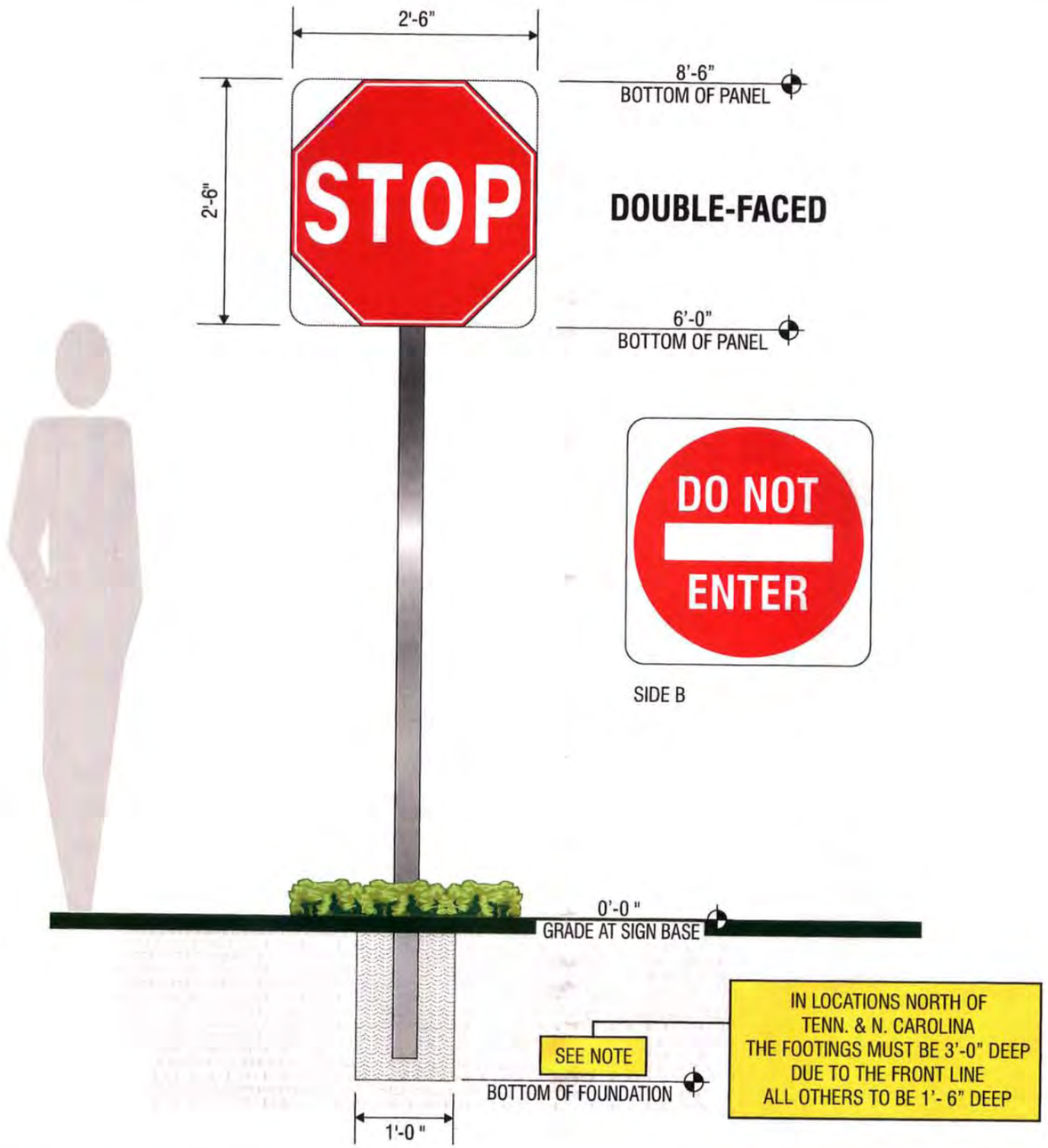
SPECIFICATIONS

SIGN PANELS
PANELS ARE .080 ALUMINUM
WITH REFLECTIVE BACKGROUND
AND GRAPHICS.
SIGN POSTS
POSTS ARE 3" x 3" SQUARE
ALUMINUM TUBING CAPPED ON TOP

SIGN PANEL
RED REFLECTIVE
SIGN POST
GRIPGARD #503 RED GLOSS

SIGN PANEL
WHITE REFLECTIVE

ALUMINUM POSTS
PAINTED MATTHEWS
BRUSHED ALUMINUM



DOUBLE-FACED

SIDE B

IN LOCATIONS NORTH OF
TENN. & N. CAROLINA
THE FOOTINGS MUST BE 3'-0" DEEP
DUE TO THE FRONT LINE
ALL OTHERS TO BE 1'- 6" DEEP

CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE		STORE NUMBER	STORE ADDRESS		LOCATION
7C	SINGLE-FACED DOT REGULATORY TRAFFIC SIGNS	120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	THIS DRAWING IS AN ORIGINAL, UNPUBLISHED DESIGN CREATED BY CLAYTON SIGNS, INC. IT IS NOT TO BE REPRODUCED, CHANGED, OR EXHIBITED TO ANYONE OUTSIDE OF YOUR COMPANY IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM THE OWNER OF CLAYTON SIGNS, INC.. ANY SUCH ACTIONS MAY BE SUBJECT TO LEGAL ACTION IN A COURT OF LAW.	N
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY				
			DRAWING DATE MAY 4 2011				
			REVISION DATE				

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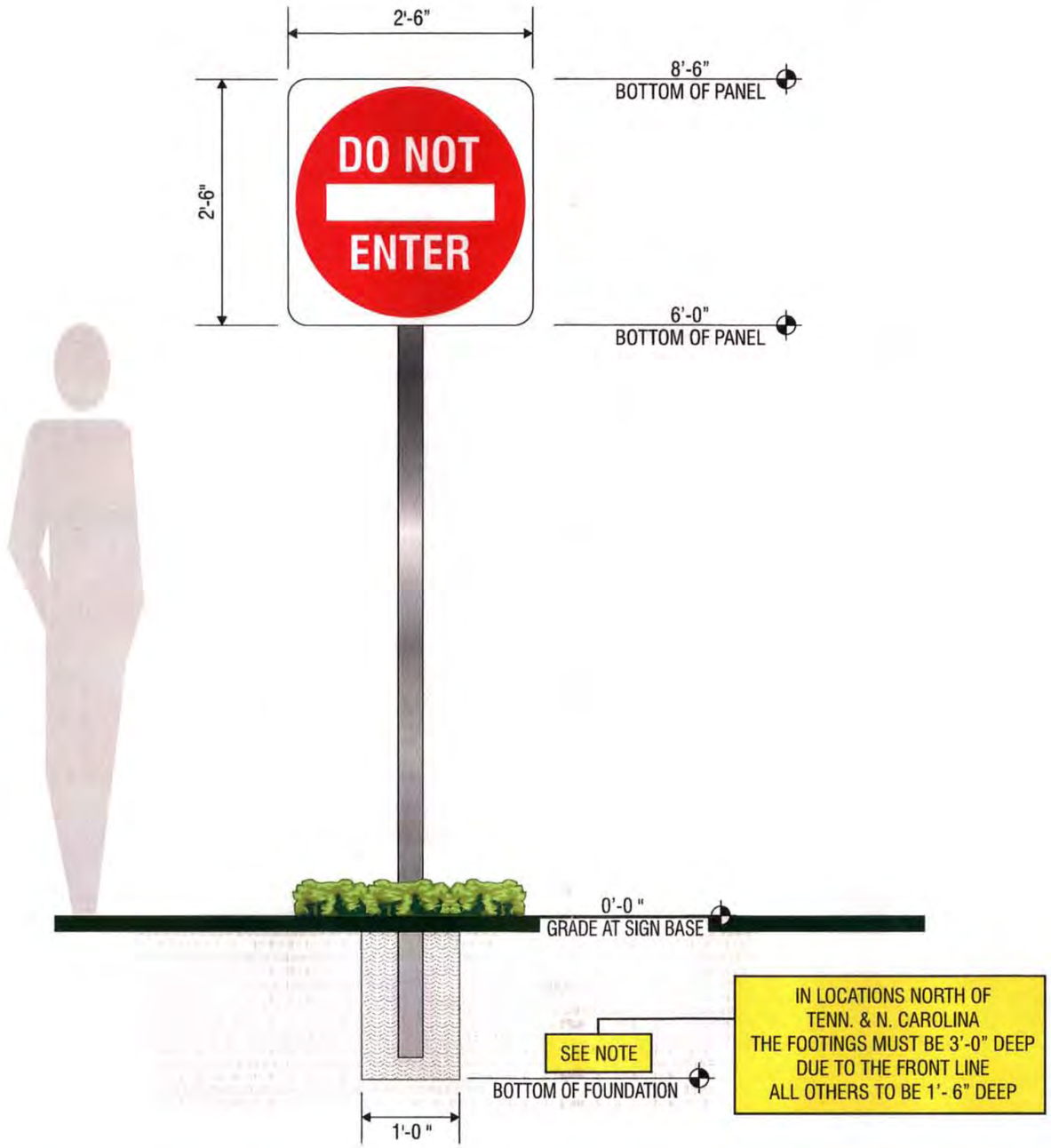
SPECIFICATIONS

SIGN PANELS
PANELS ARE .080 ALUMINUM
WITH REFLECTIVE BACKGROUND
AND GRAPHICS.
SIGN POSTS
POSTS ARE 3" x 3" SQUARE
ALUMINUM TUBING CAPPED ON TOP

SIGN PANEL
RED REFLECTIVE
SIGN POST
GRIPGARD #503 RED GLOSS

SIGN PANEL
WHITE REFLECTIVE

ALUMINUM POSTS
PAINTED MATTHEWS
BRUSHED ALUMINUM



CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED		STORE NUMBER	STORE ADDRESS		LOCATION
7C	SINGLE-FACED DOT REGULATORY TRAFFIC SIGNS		DRAWN BY BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014		0
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY				
			DRAWING DATE MAY 4 2011				
			REVISION DATE				

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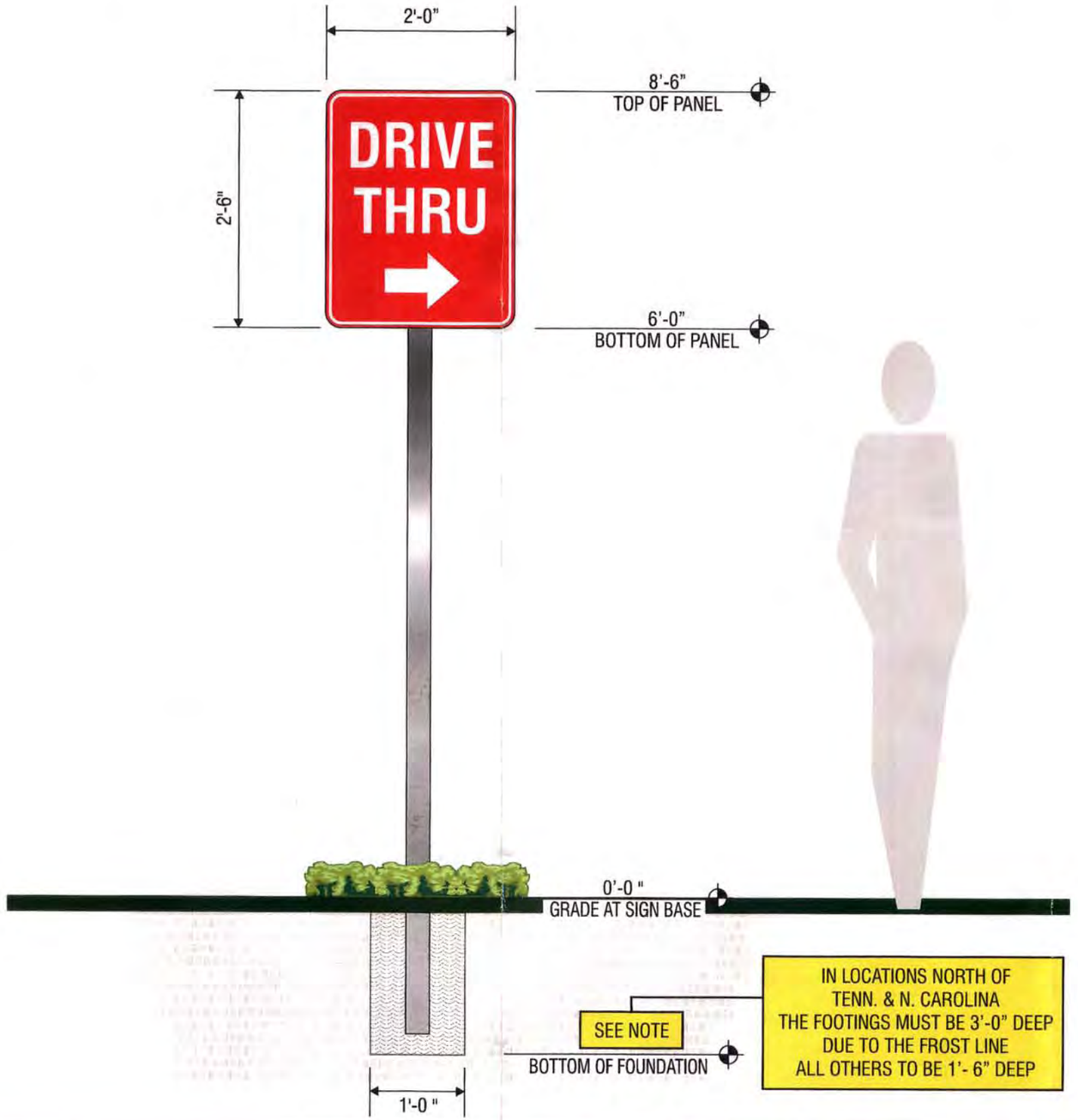
SPECIFICATIONS

SIGN PANELS
PANELS ARE .080 ALUMINUM
WITH REFLECTIVE BACKGROUND
AND GRAPHICS.
SIGN POSTS
POSTS ARE 3" x 3" SQUARE
ALUMINUM TUBING CAPPED ON TOP

SIGN PANEL
RED REFLECTIVE
SIGN POST
GRIPGARD #503 RED GLOSS

SIGN PANEL
WHITE REFLECTIVE

ALUMINUM POSTS
PAINTED MATTHEWS
BRUSHED ALUMINUM



CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE		STORE NUMBER	STORE ADDRESS		LOCATION
7F	SINGLE-FACED DOT REGULATORY TRAFFIC SIGNS	120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014		P
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY				
			DRAWING DATE MAY 4 2011				
			REVISION DATE				

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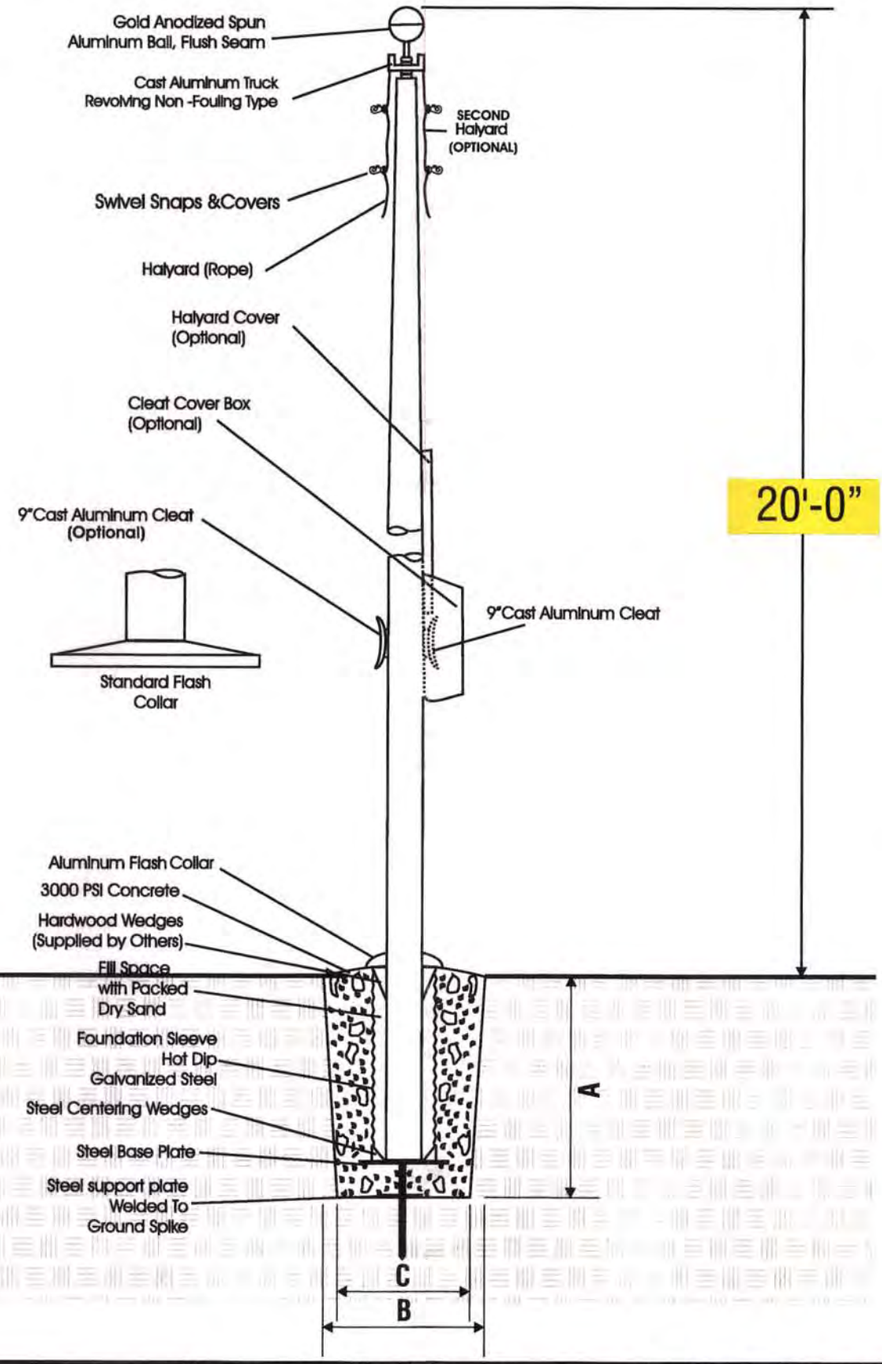


MAXIMUM SIZE ALLOWED IS 20 SQUARE FEET

FOUNDATION SIZES

HEIGHT	A	B	C
20'	3'6"	30"	24"
25'	3'6"	30"	24"
30'	3'6"	30”	24"
35'	4'0"	36”	30"
40'	4'6"	42”	36"
45'	5'0"	48”	42"
50'	5'6"	48”	42"

GROUND SLEEVE AND CONCRETE INSTALLED
BY THE GENERAL CONTRACTOR
POLE INSTALLED ON PRE-INSTALLED GROUND
SLEEVE BY SIGN CONTRACTOR



CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE 10	FLAG POLE	ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY	STORE NUMBER	STORE ADDRESS	LOCATION Q
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	
			DRAWING DATE MAY 4 2011			
			REVISION DATE			

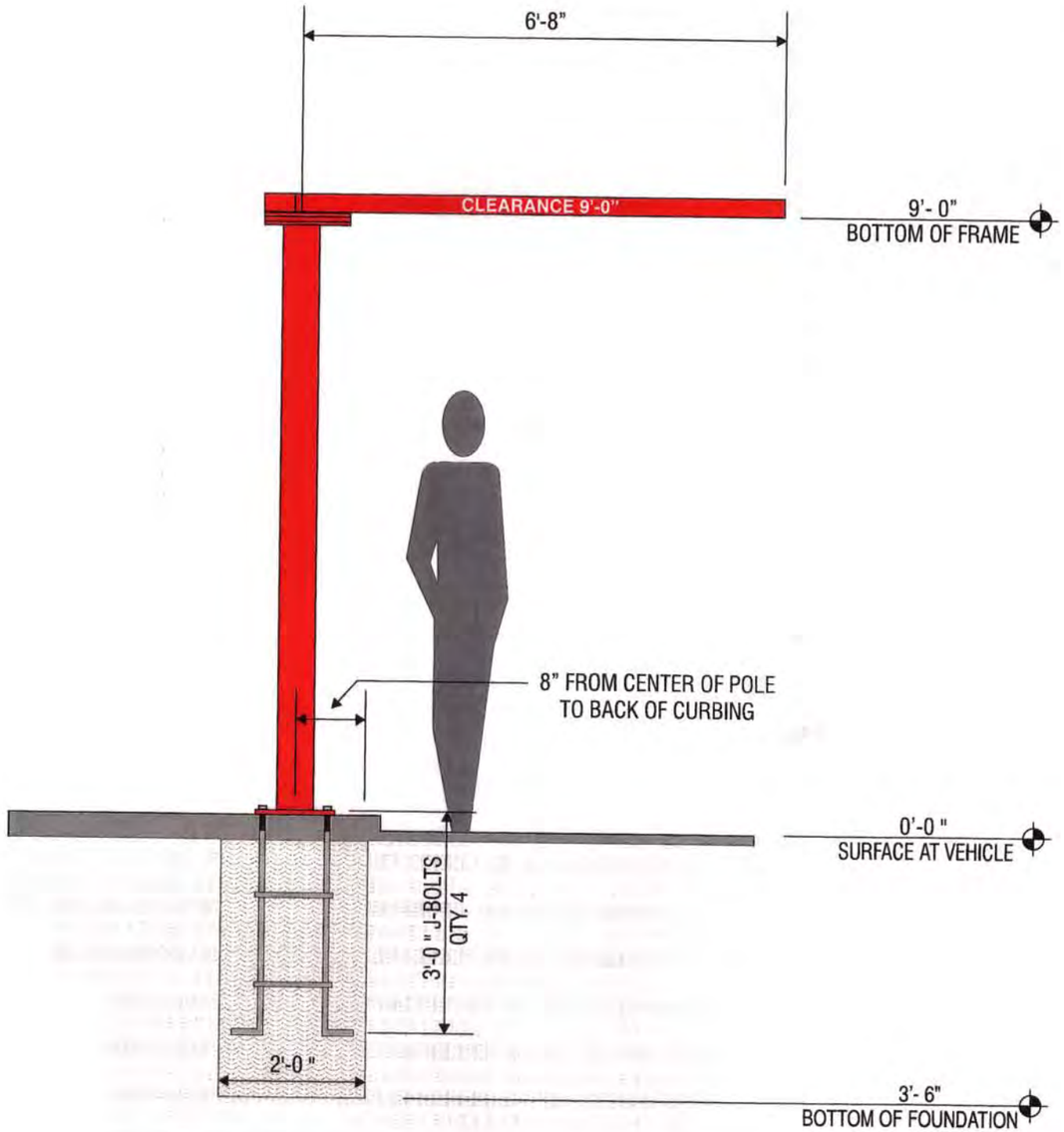
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SPECIFICATIONS

SUPPORT POLE
POLE HAS 13" x 13" x 3/4" THICK STEEL PLATE WITH FOUR(4) 1" DIA. HOLES IN EACH CORNER 2" FROM EACH END AND FOUR (4) ANCHOR BOLTS

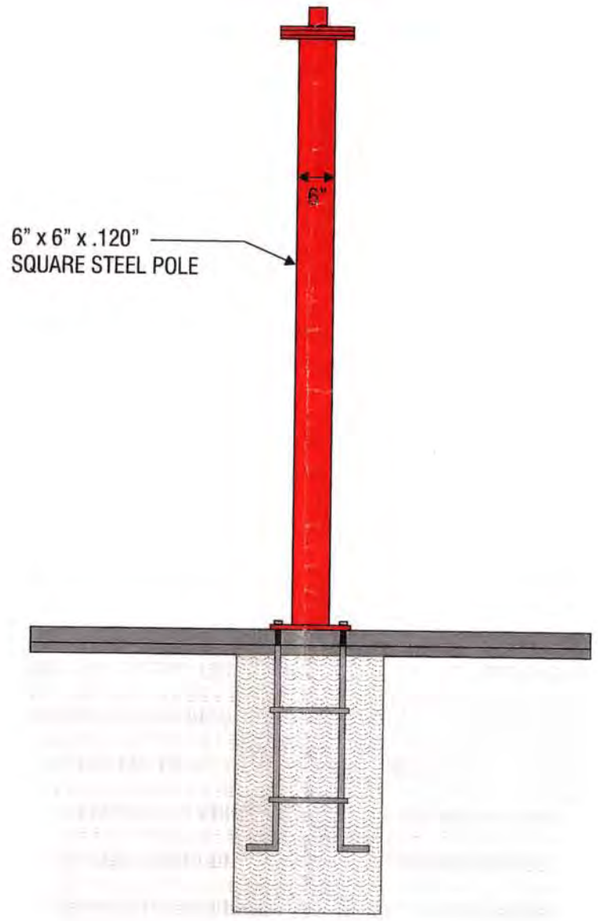
METAL SURFACES
GRIPGARD #503 RED GLOSS
FLEX FACES
PANAFLEX #53 RED
COLOR IN FABRIC MATERIAL

GRAPHICS
WHITE HIGH PERFORMANCE
VINYL FILM GRAPHICS



ELEVATION

SCALE - ½" = 1'- 0"



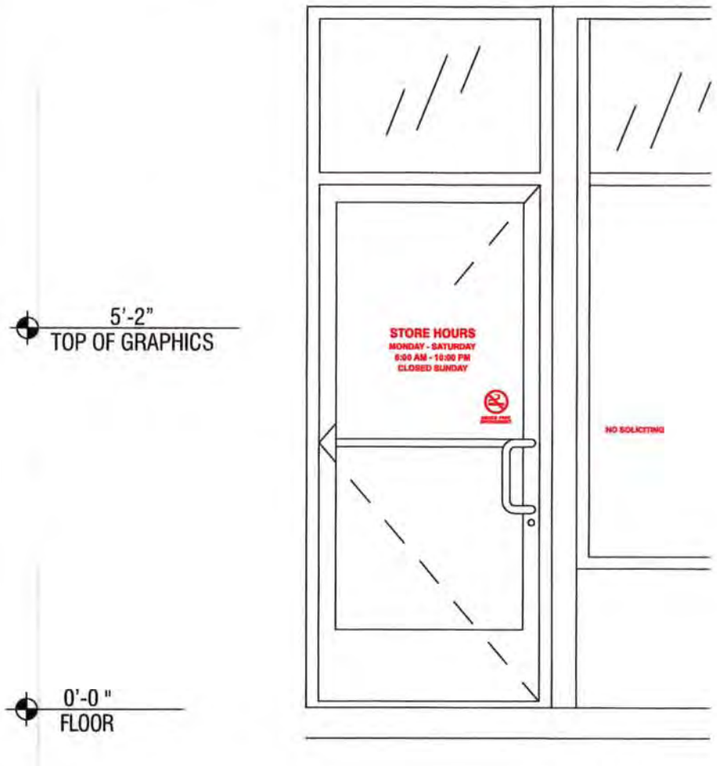
END VIEW

SCALE - ½" = 1'- 0"

CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE		STORE NUMBER	STORE ADDRESS		LOCATION
9E	INTERNALLY-ILLUMINATED MENU CANOPY	120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014	THIS DRAWING IS AN ORIGINAL, UNPUBLISHED DESIGN CREATED BY CLAYTON SIGNS, INC. IT IS NOT TO BE REPRODUCED, CHANGED, OR EXHIBITED TO ANYONE OUTSIDE OF YOUR COMPANY IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION FROM THE OWNER OF CLAYTON SIGNS, INC.. ANY SUCH ACTIONS MAY BE SUBJECT TO LEGAL ACTION IN A COURT OF LAW.	R
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY				
			DRAWING DATE MAY 4 2011				
			REVISION DATE				

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ALL WINDOW GRAPHICS ARE HIGH PERFORMANCE VINYL FILM EXCEPT FOR THE ADDRESS NUMBERS WHICH ARE REFLECTIVE

STORE HOURS
MONDAY - SATURDAY
6:00 AM - 10:00 PM
CLOSED SUNDAY

1 ½" TALL RED LETTERS
RED HIGH PERFORMANCE'
VINYL FILM

1" TALL RED LETTERS
RED HIGH PERFORMANCE'
VINYL FILM

NO SOLICITING

1" TALL "NO SOLICITING"
RED HIGH PERFORMANCE'
VINYL FILM

1234

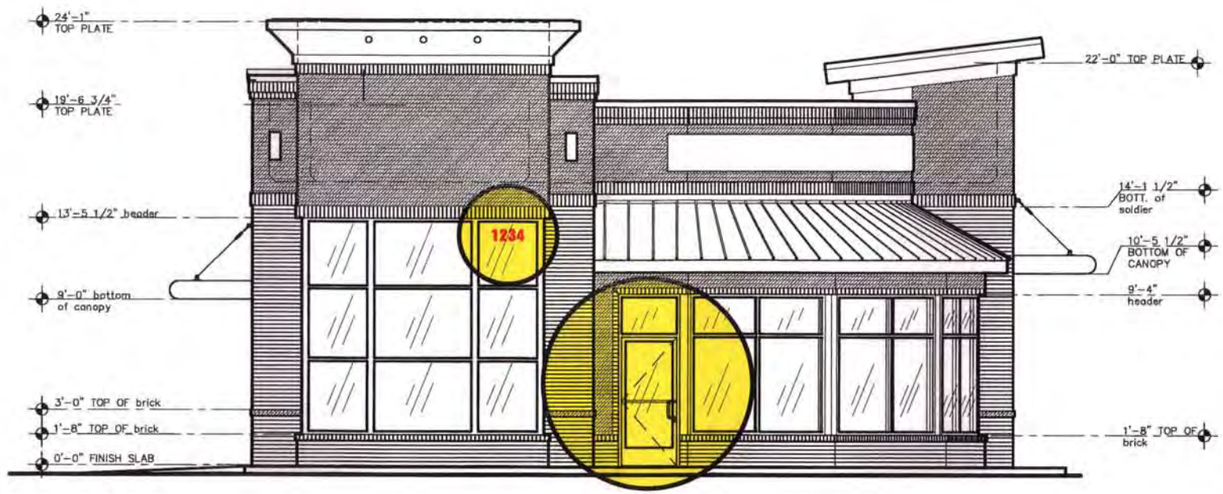
8" TALL ADDRESS NUMBERS
RED **REFLECTIVE** VINYL FILM

VERIFY ADDRESS BEFORE MAKING NUMBERS

5 1/2"

SMOKE FREE ENVIRONMENT

RED HIGH PERFORMANCE VINYL FILM



PLAYGROUND ELEVATION

SCALE - 1/8" = 1'- 0"

CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE 6	VINYL WINDOW GRAPHICS	ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED	DRAWN BY BEN HOLLIDAY	STORE NUMBER	STORE ADDRESS
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014
			DRAWING DATE MAY 4 2011		
			REVISION DATE		

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ALL WINDOW GRAPHICS ARE HIGH PERFORMANCE VINYL FILM EXCEPT FOR THE ADDRESS NUMBERS WHICH ARE REFLECTIVE

STORE HOURS
MONDAY - SATURDAY
6:00 AM - 10:00 PM
CLOSED SUNDAY

1 ½" TALL RED LETTERS
RED HIGH PERFORMANCE'
VINYL FILM

1" TALL RED LETTERS
RED HIGH PERFORMANCE'
VINYL FILM

NO SOLICITING

1" TALL "NO SOLICITING"
RED HIGH PERFORMANCE'
VINYL FILM

1234

8" TALL ADDRESS NUMBERS
RED **REFLECTIVE** VINYL FILM

VERIFY ADDRESS BEFORE MAKING NUMBERS

5 1/2"

SMOKE FREE ENVIRONMENT

RED HIGH PERFORMANCE VINYL FILM



MAIN ENTRY ELEVATION

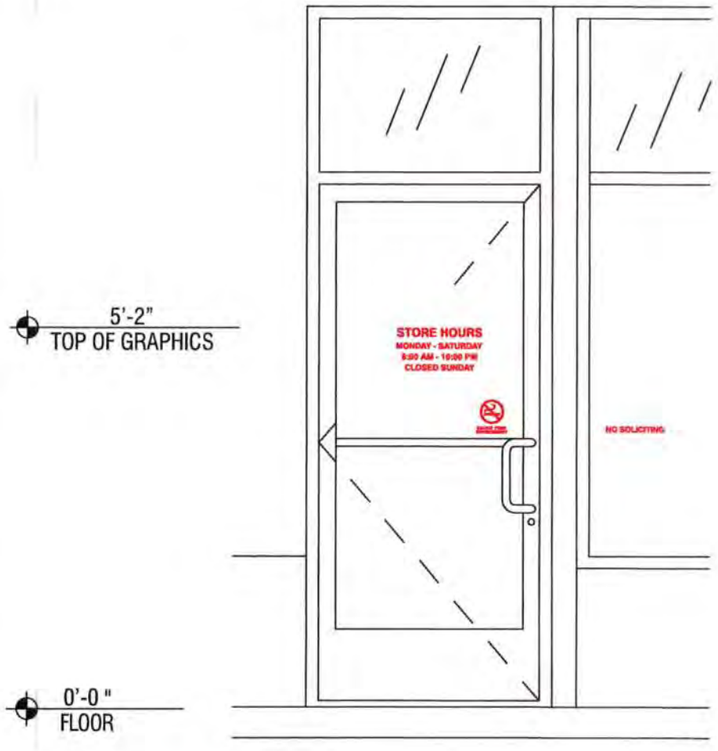
SCALE - 1/8" = 1'- 0"

CLAYTON Signs
5198 North Lake Drive
Lake City, GA 30260
404-361-3800 fax 404-361-7038
website - www.claytonsigns.com

SIGN TYPE		ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED		STORE NUMBER	STORE ADDRESS
6	VINYL WINDOW GRAPHICS		DRAWN BY BEN HOLLIDAY	2927	CHICK-FIL-A NORTHWEST HIGHWAY CRYSTAL LAKE, IL 60014
	DRAWING FILE - CFA - CRYSTAL LAKE, IL SIGNAGE.CDR		ACCOUNT REP. BEN HOLLIDAY		
			DRAWING DATE MAY 4 2011		
			REVISION DATE		

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ALL WINDOW GRAPHICS ARE HIGH PERFORMANCE VINYL FILM EXCEPT FOR THE ADDRESS NUMBERS WHICH ARE REFLECTIVE



STORE HOURS
MONDAY - SATURDAY
6:00 AM - 10:00 PM
CLOSED SUNDAY

1 ½" TALL RED LETTERS
RED HIGH PERFORMANCE'
VINYL FILM

1" TALL RED LETTERS
RED HIGH PERFORMANCE'
VINYL FILM

NO SOLICITING

1" TALL "NO SOLICITING"
RED HIGH PERFORMANCE'
VINYL FILM

5 1/2"

SMOKE FREE ENVIRONMENT

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Memorandum

From: Charles H. Teuer, PE, LEED Green Associate Date: May 9, 2010

To: Erik Morimoto, P.E., PTOE, City of Crystal Lake

Subject: Chick-fil-A Restaurant Drive-thru Queuing Analysis

INTRODUCTION

This memorandum presents a summary of the queuing analysis performed for the drive-thru operations at the proposed Chick-fil-A restaurant to be located on the northwest corner of Northwest Highway (US Route 14) and Cog Circle. The proposed site can be seen in Figure 1. It was noted that the proposed drive-thru operations include a dual order point configuration that merges into a single pick-up lane. Because of this configuration, and the difference in service times for ordering and picking up, the queuing analysis was broken into two parts. A queuing analysis was performed for the pick-up lane and a separate analysis was performed for the dual order points. The findings of these analyses are detailed below.

QUEUING ANALYSIS

Based on the provided information, including the proposed site plan, average peak hour volumes nationally, peak hours at local stores and average service times, it was determined that the proposed Chick-fil-A location can be expected to receive 110 vehicles per hour into the drive-thru system during a typical peak hour. The provided information also states that the service time for the ordering process takes approximately 40 seconds, while the service time for the pick-up process takes between 25-30 seconds. A typical vehicle length of 20 feet was used. The results of the queuing analysis indicate the percent probability that the queue will be less than a certain number of cars. For the purpose of queuing analysis, the 90th percentile queue length is typically used.

Pick-Up Window Analysis

With an expected service time of 25-30 seconds per vehicle, the pick-up window can be expected to serve between 120 and 144 vehicles per hour. As indicated above, the arrival rate was determined to be 110 vehicles per hour in the peak hour. Based on the anticipated service times at the pick-up window, the 90th percentile queue was calculated at eight vehicles for a service time of 25 seconds per vehicle, and at 26 vehicles for a service time of 30 seconds per vehicle. During the peak rush period, it is anticipated that steps can be taken to speed up service to provide the service time of approximately 25 seconds per vehicle.

The current available stacking as shown on the proposed site plan accommodates six vehicles in the pick-up window queue. It is recommended that pushing the order boxes approximately 46 feet east be considered to accommodate the expected pick-up window queue. This would place the two order boxes directly behind the proposed sidewalk as shown on the site plan.

Order Point Analysis

The expected service time at the order point is 40 seconds per vehicle. This indicates the order boxes can be expected to serve 90 vehicles per hour at each of the two locations. Based on the anticipated service times and the arrival rate of 110 vehicles per hour, the 90th percentile queue was calculated at five vehicles. This represents the total amount of vehicles queued in the system, and will be distributed among the two order point lines.

The current available stacking as shown on the proposed site plan accommodates fifteen vehicles in the order point queue. With the suggested relocation of the two order boxes, the available stacking would hold eleven vehicles.

Circulation

While the current proposed site plan does not include enough stacking space in the pick-up portion of the queue, the relocation of the two order boxes is expected to accommodate all vehicles in the queue based on the 90th percentile calculations. With this suggested change, all vehicles accessing the drive-thru can be expected to remain contained within the drive-thru area, with no queued vehicles blocking available parking or spilling out onto the roadway.

Pedestrian access should also remain unblocked by queued vehicles. It is noted that the proposed site plan shows a pedestrian crosswalk connecting the northern parking area with the building, crossing the two drive-thru order lanes. This access should be maintained with no vehicles queued in the area. The suggested move of the order boxes would place them just to the east of this sidewalk, maintaining clear pedestrian circulation across the drive-thru lanes. It is also suggested that the pedestrian crosswalk be striped, as to discourage vehicles from blocking the crossing.

CONCLUSION

Based on the provided information, the current site plan is not able to accommodate the 90th percentile queues in the designated drive-thru area. Relocating the two order boxes approximately 46 feet to the east is expected to provide adequate drive-thru queue storage for both the pick-up window and order points. This relocation will also improve pedestrian circulation, while not impacting vehicle circulation around the queued vehicles in the drive-thru lanes. The results of the 90% queues and recommended order box locations can be seen in Figure 2. Results of the queuing analyses can be found attached.

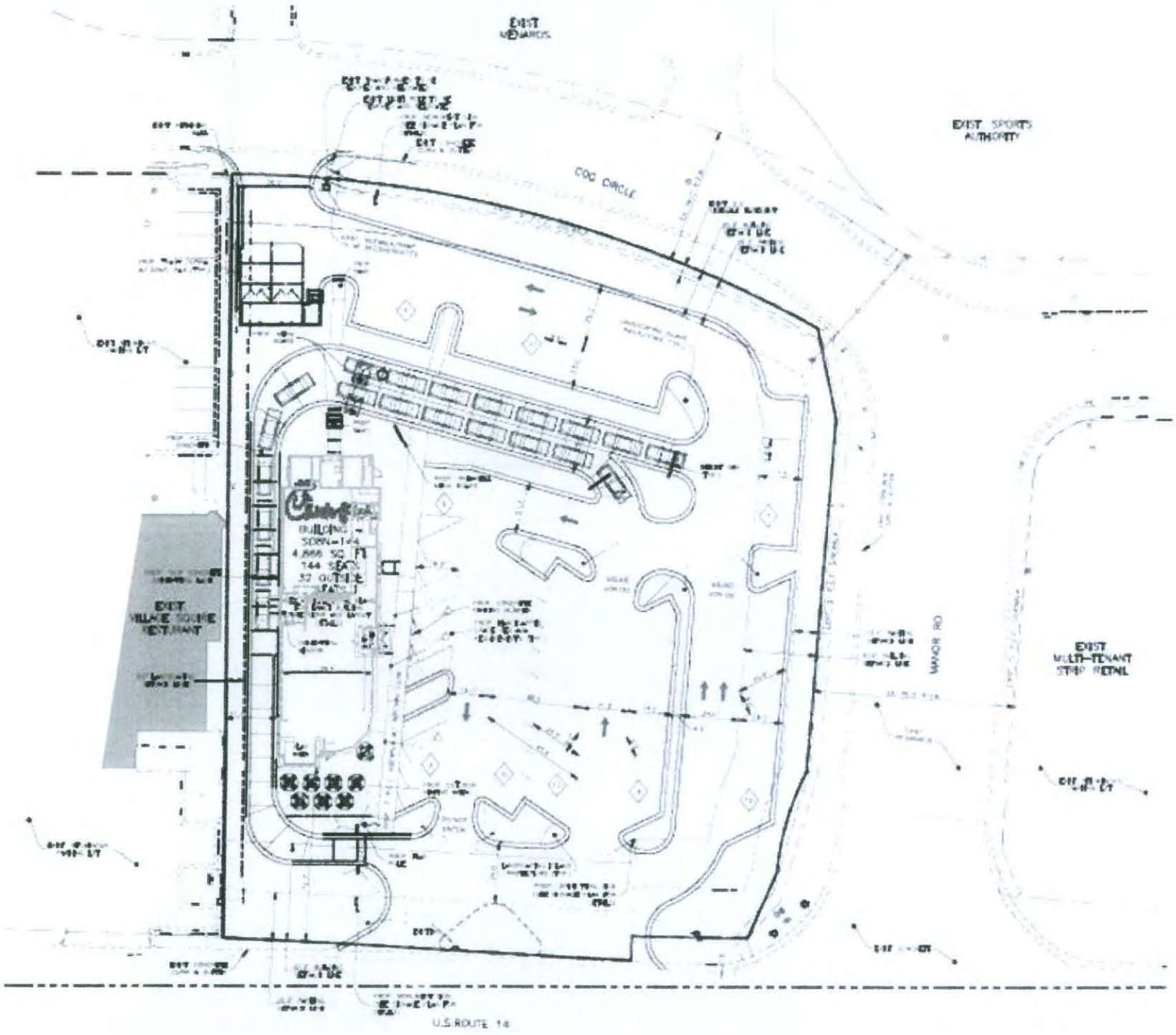


Figure 1 - Chick-fil-A Site Plan

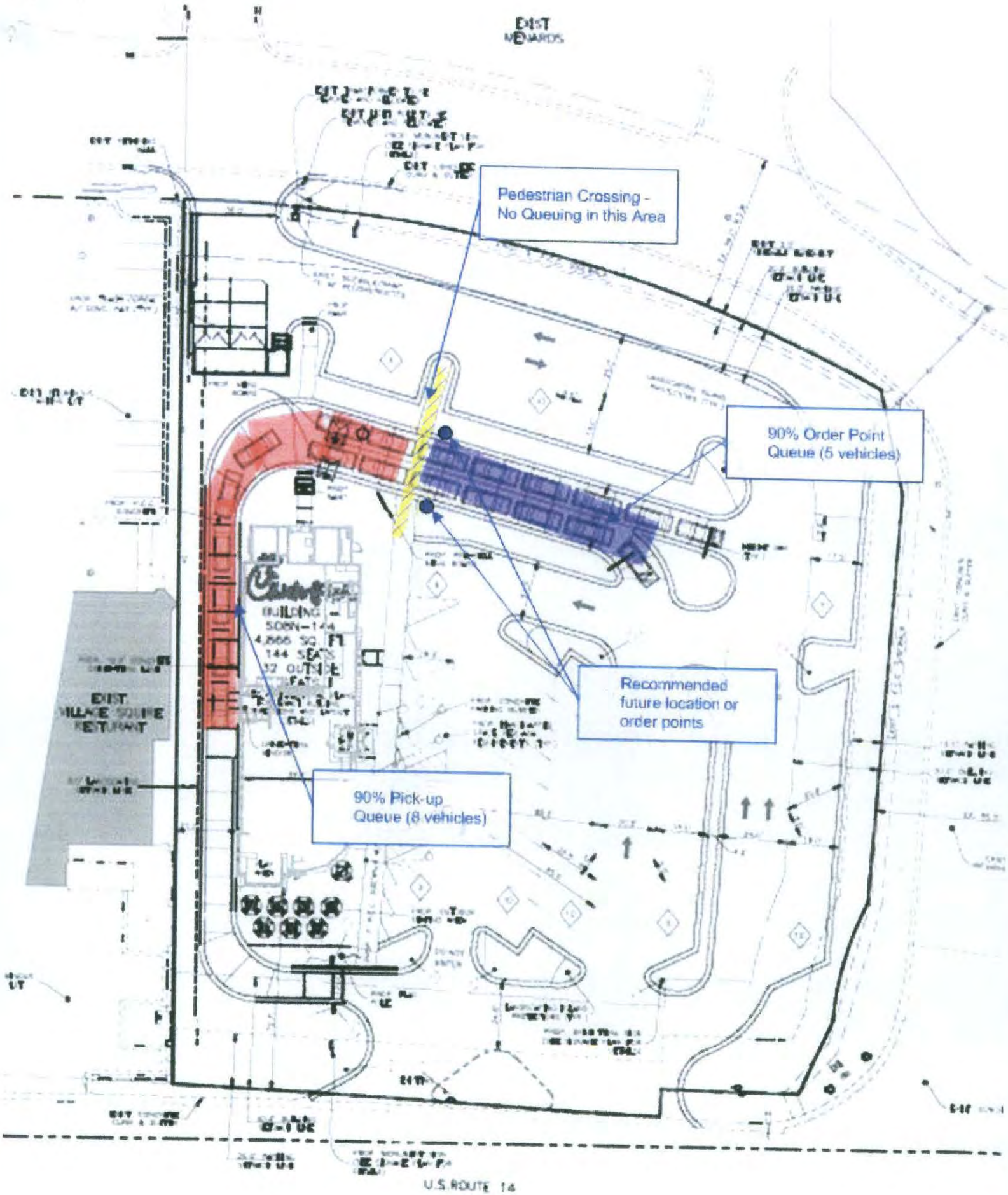


Figure 2 - Chick-fil-A 90% Queue Lengths and recommended locations

Pick-Up Window Queue Analysis
25-second service time

Waiting Lines M/M/1 (Single Server Model)

Data

Arrival rate (λ)	110
Service rate (μ)	144

Results

Average server utilization(ρ)	0.763889
Average number of customers in the queue(L_q)	2.471405
Average number of customers in the system(L)	3.235294
Average waiting time in the queue(W_q)	0.022467
Average time in the system(W)	0.029412
Probability (% of time) system is empty (P_0)	0.236111

Probabilities

Number	Probability	Cumulative Probability	
0	0.236111	0.236111	
1	0.180363	0.416474	
2	0.137777	0.554251	
3	0.105246	0.659497	
4	0.080397	0.739894	
5	0.061414	0.801308	
6	0.046913	0.848221	Available Stacking
7	0.035837	0.884058	
8	0.027375	0.911433	90% Queue
9	0.020912	0.932345	
10	0.015974	0.948319	
11	0.012202	0.960521	
12	0.009321	0.969843	
13	0.007120	0.976963	
14	0.005439	0.982402	
15	0.004155	0.986557	
16	0.003174	0.989731	
17	0.002425	0.992156	
18	0.001852	0.994008	
19	0.001415	0.995423	
20	0.001081	0.996503	
21	0.000826	0.997329	
22	0.000631	0.997960	
23	0.000482	0.998441	
24	0.000368	0.998809	
25	0.000281	0.999091	
26	0.000215	0.999305	
27	0.000164	0.999469	

Pick-Up Window Queue Analysis
30-second service time

Waiting Lines M/M/1 (Single Server Model)

Data

Arrival rate (λ)	110
Service rate (μ)	120

Results

Average server utilization(ρ)	0.916667
Average number of customers in the queue(L_q)	10.08333
Average number of customers in the system(L)	11
Average waiting time in the queue(W_q)	0.091667
Average time in the system(W)	0.1
Probability (% of time) system is empty (P_0)	0.083333

Probabilities

Number	Probability	Cumulative Probability	
0	0.083333	0.083333	
1	0.076389	0.159722	
2	0.070023	0.229745	
3	0.064188	0.293933	
4	0.058839	0.352772	
5	0.053936	0.406708	
6	0.049441	0.456149	Available Stacking
7	0.045321	0.501470	
8	0.041544	0.543014	
9	0.038082	0.581096	
10	0.034909	0.616005	
11	0.032000	0.648004	
12	0.029333	0.677337	
13	0.026889	0.704226	
14	0.024648	0.728874	
15	0.022594	0.751468	
16	0.020711	0.772179	
17	0.018985	0.791164	
18	0.017403	0.808567	
19	0.015953	0.824520	
20	0.014623	0.839143	
21	0.013405	0.852548	
22	0.012288	0.864835	
23	0.011264	0.876099	
24	0.010325	0.886424	
25	0.009465	0.895889	
26	0.008676	0.904565	90% Queue
27	0.007953	0.912518	

Order Point Queue Analysis
40-second service time

Waiting Lines M/M/s

Data

Arrival rate (λ)	110
Service rate (μ)	90
Number of servers(s)	2

Results

Average server utilization(ρ)	0.61111
Average number of customers in the queue(L_q)	0.72852
Average number of customers in the system(L)	1.95074
Average waiting time in the queue(W_q)	0.00662
Average time in the system(W)	0.01773
Probability (% of time) system is empty (P_0)	0.24138

Probabilities

Number	Probability	Cumulative Probability	
0	0.241379	0.241379	
1	0.295019	0.536398	
2	0.180289	0.716688	
3	0.110177	0.826865	
4	0.067330	0.894195	
5	0.041146	0.935342	90% Queue
6	0.025145	0.960486	
7	0.015366	0.975853	
8	0.009391	0.985243	
9	0.005739	0.990982	
10	0.003507	0.994489	
11	0.002143	0.996632	
12	0.001310	0.997942	
13	0.000800	0.998742	
14	0.000489	0.999231	
15	0.000299	0.999530	Available Stacking
16	0.000183	0.999713	
17	0.000112	0.999825	
18	0.000068	0.999893	
19	0.000042	0.999934	
20	0.000025	0.999960	
21	0.000016	0.999976	
22	0.000010	0.999985	
23	0.000006	0.999991	
24	0.000004	0.999994	
25	0.000002	0.999997	
26	0.000001	0.999998	
27	0.000001	0.999999	
28	0.000000	0.999999	
29	0.000000	1.000000	