



**BACKGROUND:**

- The subject site is located in Downtown SPSD within the Perimeter Subdistrict. This subdistrict follows base zoning. CA-2(A) is a business zoning sign district.  
These regulations are established in: [Sec. 51A-7.900](#) (Specific details included below).
- The applicant proposes to install a 120-square-foot detached landscape sign, composed of channel letters, mounted to a raceway with a backer panel, using wedge bolt hardware, on the McKinney Ave Frontage, and bearing the name COURTLAND ON MCKINNEY With Logo
  - internally illuminated fabricated aluminum channel letters with push-through translucent white acrylic faces with 0.125" painted aluminum with 1" painted aluminum backer; attached to painted raceway.
  - Sign will be replacing the existing sign on the concrete wall using noncorrosive stainless steel wedge-bolt hardware.
- This is the second and last application for this site. This sign is to be located on the McKinney Avenue frontage at the northwestern corner of the property.
- Construction of the proposed sign is in accordance with SPSD regulations and meets the requirements of the Dallas City Code per Sec. 51A-7.900.

**51A-7.902 PURPOSE.**

The purpose of this division is to regulate both the construction of new signs and the alterations of existing signs with a view towards enhancing, preserving, and developing the unique character of the downtown area while addressing the diversity of businesses and promoting the economy of downtown. The general objectives of this division include those listed

**51A-7.304 DETACHED SIGNS.**

(a) Definitions. In this section:

(2) MONUMENT SIGN means a detached sign applied directly onto a ground-level support structure (instead of a pole support) with no separation between the sign and the ground, or mounted on a fence.

(b) General regulations applicable to all detached signs.

(8) The support structure for monument signs must be constructed of concrete, metal, or masonry; wood is prohibited. The board of adjustment may grant a special exception to this provision when, in the opinion of the board, an alternative material will be as durable as concrete, metal, or masonry. This provision does not control the material used for the sign itself.

*The proposed sign meets all requirements for a monument sign in business zoning. This sign will be mounted directly to an existing concrete wall.*

**51A-7.505 PERMIT PROCEDURES FOR SPECIAL PROVISION SIGN DISTRICTS.**

(B) **Factors the committee shall consider.** In reviewing an application, the committee shall first consider whether the applicant has submitted sufficient information for the committee to make an informed decision. If the committee finds the proposed sign to be consistent with the special character of the special provision sign district, the committee shall make a recommendation of approval to the city plan commission. **The committee shall consider the proposed sign in terms of its appropriateness to the special provision sign district with particular attention to the effect of the proposed sign upon the economic structure of the special provision sign district and the effect of the sign upon adjacent and surrounding premises without regard to any consideration of the message conveyed by the sign.** After consideration of these factors, the committee shall recommend approval or denial of the application and forward that recommendation to the city plan commission.

(6) Decision by the commission. Upon receipt of a recommendation by the committee, the commission shall hold a public hearing to consider the application. At least 10 days before the hearing, notice of the date, time, and place of the hearing, the name of the applicant, and the location of the proposed sign must be published in the official newspaper of the city and the building official shall serve, by hand-delivery or mail, a written notice to the applicant that contains a reference to this section, and the date, time, and location of this hearing. A notice sent by mail is served by depositing it properly addressed and postage paid in the United States mail. In addition, if the application is for a detached sign or for an attached sign that has more than 100 square feet of effective area, the applicant must post the required number of notification signs in accordance with Section 51A-1.106. **In making its decision, the commission shall consider the same factors that were required to be considered by the committee in making its recommendation.** If the commission approves the application, it shall forward a certificate of appropriateness to the building official within 15 days after its approval. If the commission denies the application, it shall so inform the building official in writing. Upon receipt of the written denial, the building official shall so advise the applicant within five working days of the date of receipt of the written notice.

**SSDAC Action:**

**September 10, 2024**

**MOTION:** It was moved to **approve:**

An application for a Certificate of Appropriateness by Monica Ortiz of BARNETT SIGNS, INC., for a 120-square-foot LED illuminated detached channel letter landscape sign at 1900 McKINNEY AVE (McKinney Ave. frontage).

Maker: Dumas  
Second: Webster  
Result: Carried: 4 to 0

For: 4 - Peadon, Dumas, Webster, and Hardin  
Against: 0 - none  
Absent: 1 - Haqq  
Conflict: 0 - none

Speakers: NONE

**Property Ownership**

McKINNEY AVE TX PARTNERS, LP  
3424 Peachtree R. NE Suite 300  
Atlanta, GA 30326

Officer names: Emily Ouyang Title: Director of Investments, Cortland  
Kyle Bateh Title: Director of Investments, Cortland

**Tenant Ownership**

Cortland on McKinney  
3200 McKinney Ave.  
Dallas TX 75204

Officer names: Steven DeFrancis Title: Chief Executive Officer

# Job 189915788-002 (2408070021)

## Job Edit

CA: 2408070021

### Miscellaneous Transaction

#### Job 189915788-002 (2408070021)

Electrical Sign (ES) ERECT DETACHED SIGN (A) New Construction

Status: Paid Created By: MMARTIN

Date Created: Aug 07, 2024

Date Completed: Aug 19, 2024

Parent Job: 189915788-001 (2406041122)

Specific Location: \*\*\*SEE COMMENTS IN PDOX\*\*\*

## Details

Customer: Ortiz, Monica  
4250 Action Dr  
Mesquite, TX 75150  
(972) 362-8774  
monica@barnettsigns.com

Fee Amount

FeeType

Staff Email

## Details

Fees (EXT): 2408070021 Technology Fee \$15.00  
Adjusted:\$0.00 Paid:\$15.00 Owed:\$0.00



Customer: Ortiz, Monica  
4250 Action Dr  
Mesquite, TX 75150 (972) 362 8774

Fees (EXT): 2408070021 SPSP Plan Review \$397.00  
Adjusted:\$0.00 Paid:\$397.00 Owed:\$0.00

## Fees

Description	Posted Date	Amount	Tax	Total	Balance
SPSD Plan Review		\$397.00	\$0.00	\$397.00	\$0.00
Receipt Number: 911132	\$412.00	(\$397.00)	\$0.00	(\$397.00)	
Technology Fee		\$15.00	\$0.00	\$15.00	\$0.00
Receipt Number: 911132	\$412.00	(\$15.00)	\$0.00	(\$15.00)	
					<b>\$0.00</b>

# Job 189915788-002 (2408070021)

## Processes

Assigned To	Status	Outcome	Scheduled		Actual	
			Start	Completed	Start	Completed
System Fee Collection						
SICASHIERINTERFACE	Complete	Collected				Aug 19, 2024 10:05:58
Auto generated System Fee Collection						



CA: 2408070021

OLIVE ST

HARWOOD ST

MCKINNEY AVE

ST PAUL ST

WOODALL RODGERS SERV

ST PAUL ACRD

AKARD ST

WOODALL RODGERS ACRD

WOODALL RODGERS FWY

WOODALL RODGERS FWY



1:1,200

# Aerial Map - 1900 McKinney Ave

Printed Date: 9/4/2024

CA: 2408070021

PD 193  
PDS 50  
(PDS 50)  
Tract 1

PD 193  
PDS 50  
Tract 2

PD 193  
PDS 68  
Area A

PD 193  
PDS 68  
Area D

PD 193  
PDS 68  
Area E

PD 193  
(PDS 68)

PD 193  
PDS 68  
Area B

PD 193  
PDS 66  
Subarea B

PD 193  
PDS 68  
Area A1

PD 193

PD 193  
(PDS 66)

PD 193  
PDS 66  
Subarea A

**DOWNTOWN**  
**Downtown Perimeter**  
**SPSD**

PD 193  
PDS 155  
Subarea 1

PD 193  
(PDS 154)

PD 193  
(PDS 155)

PD 193  
PDS 155  
Subarea 2

AKARD ST

MCKINNEY AVE

WOODALL RODGERS SERV  
ST PAUL ACRD

PD 193  
(PDS 24)

PD 193  
(HC)

**DOWNTOWN**  
**General CBD area 1**  
**SPSD**

**DOWNTOWN**  
**Inner Loop**  
**SPSD**

CA-1(A)

**ARTS DISTRICT**

**SPSD**  
PD 145



1:1,200

# Zoning Map - 1900 McKinney Ave

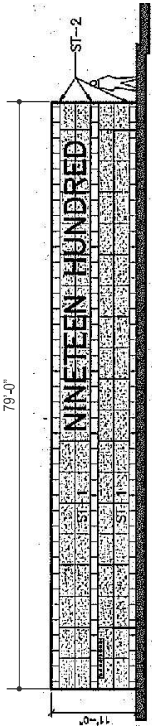
Printed Date: 9/4/2024



This drawing and the intellectual property it represents are the sole property of DeNyse Companies, Inc.; no portion of it may be reproduced, created, or used for pricing without written permission.

CA: 2408070021

© Copyright 2023 All designs and drawings are the property of DeNyse Companies, Inc. and may not be reproduced, published, changed or used in any way without written permission and consent. In addition, all ideas, contents of proposals, and all specifications of any project entered into with DeNyse Companies, Inc. are all rights reserved. No liability is assumed for any errors or omissions. All dimensions are to be taken as shown. All dimensions are to be taken as shown. All dimensions are to be taken as shown.



FRONT ELEVATION (from architectural plan; not to scale)

**WALL LOCATION**

**ALTA/ASCAN LAND TITLE SURVEY**  
 JOHN OMBREY SURVEY, TRACT NO. 495  
 CITY OF DALLAS, DALLAS COUNTY, TEXAS  
 1.33 ACRES ± 86.46 SQ. FT.  
 0.285 ACRES ± 11,242 SQ. FT.  
 0.049 ACRES ± 2,127 SQ. FT.  
 0.007 ACRES ± 300 SQ. FT.

**JACOBS**  
 PHONE (817) 755-1900  
 777 MARK STREET  
 FORT WORTH, TEXAS 76102

**REVISIONS**

NO.	DATE	BY	REVISIONS
1	06/21/2024	hi	REVISED PER COMMENTS
2	07/08/2024	hi	REVISED PER COMMENTS

**PROPERTY NAME & ADDRESS**  
 Cordland on McKinney  
 1900 McKinney Ave  
 Dallas, TX 75201

**OPPORTUNITY NUMBER**  
 61275

**DENYSE REPRESENTATIVE**  
 Earl Raymond

**DESIGNER**  
 hi

**DATE**  
 05.09.2024

**REVISION DATE**  
 06.21.2024 hi  
 07.08.2024 hi

**FILEPATH**  
 V:\Drawings and Graphics\Cordland Partners\Cordland on McKinney - Dallas, TX\Concept\COM Rebrand Combined 1.v3

**Concept**  
 Preliminary  
 Production

Main ID - 2: Proposed Location

This drawing and the intellectual property it represents are the sole property of DeNyse Companies, Inc.; no portion of it may be reproduced, created, or used for pricing without written permission.

CA: 2408070021

**DENYSE**  
SIGNAGE &  
ARCHITECTURAL  
ELEMENTS  
1.800.941.7446  
denyseco.com

© Copyright 2023. All designs and  
drawings are the property of  
Denyse Companies, Inc. and shall  
not be reproduced, published,  
changed or used in any way without  
written permission and consent. In  
addition, all ideas, contents of  
proposals, and all specifications of  
any project entered into with Denyse  
Companies, Inc. are all rights  
reserved and shall be the property  
of Denyse Companies, Inc. and shall be  
confidential. Violators will be  
prosecuted to the full extent of the law.

Management Company  
Cortland

Property Name & Address  
Cortland on McKinney  
1900 McKinney Ave  
Dallas, TX 75201

Opportunity Number  
61275

DeNyse Representative  
Earl Raymond

Designer  
hi

Date  
05.09.2024

Revision Date  
06.21.2024 hi  
07.08.2024 hi

2

Filepath  
V:\Drawings and  
Graphics\Cortland  
Partners\Cortland on  
McKinney - Dallas,  
TX\Concept  
COM Rebrand Combined  
1 v3

- Concept
- Preliminary
- Production

### Main ID - 2: Proposed



This drawing and the intellectual property it represents are the sole property of DeNyse Companies, Inc.; no portion of it may be reproduced, created, or used for pricing without written permission.

CA: 2408070021

**DENYSE**  
SIGNAGE &  
ARCHITECTURAL  
ELEMENTS  
1.800.941.7446  
denyseco.com

© Copyright 2023. All designs and drawings are the property of DeNyse Companies, Inc. and shall not be reproduced, published, changed or used in any way without written permission and consent. In addition, all ideas, contents of proposals, and all specifications of any project entered into with DeNyse Companies, Inc. are all rights reserved. We do not intend to be bound by any oral or written communications, verbal or written, or any other means of communication. Violators will be prosecuted to the full extent of the law.

**Management Company**  
Cortland

**Property Name & Address**  
Cortland on McKinney  
1900 McKinney Ave  
Dallas, TX 75201

**Opportunity Number**  
61275

**DeNyse Representative**  
Earl Raymond

**Designer**  
hi

**Date**  
05.09.2024

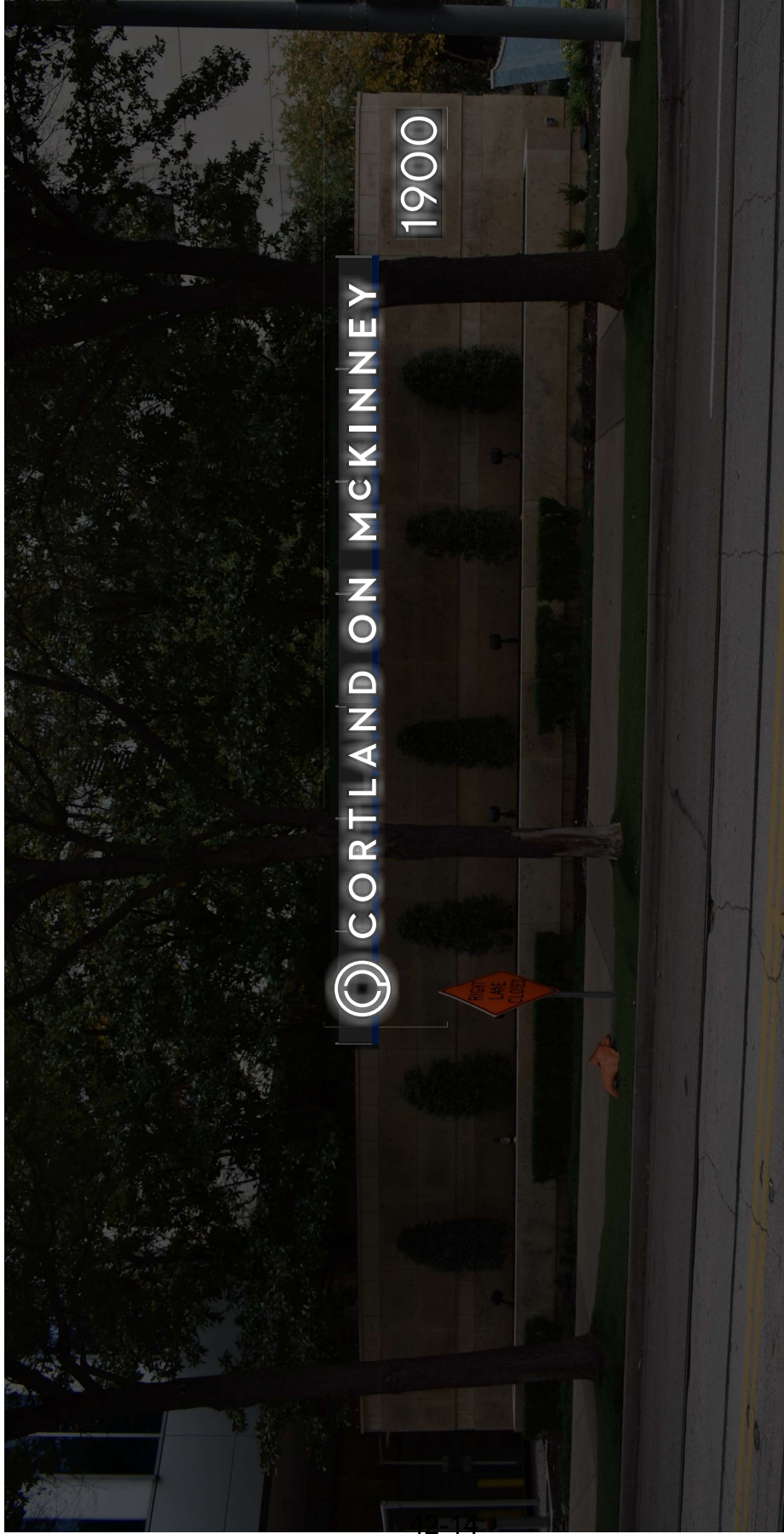
**Revision Date**  
06.21.2024 hi  
07.08.2024 hi



**Filepath**  
V:\IDrawings and Graphics\Cortland Partners\Cortland on McKinney - Dallas, TX\Concept COM Rebrand Combined 1 v3

- Concept
- Preliminary
- Production

21



**Main ID - 2: Night View**



This drawing and the intellectual property it represents are the sole property of DeNyse Companies, Inc.; no portion of it may be reproduced, created, or used for pricing without written permission.

CA: 2408070021

**Electrical Notes**

- ⊗ Disconnect switch(es) UL & ID labels  Vent Location
- FINAL ELECTRICAL CONNECTION AT PANEL BOX BY OTHERS**
- Suitable for Wet Location**
- Electrical Requirement: \_\_\_\_\_ Volts
- Number of Circuits: \_\_\_\_\_ 20 amp Dedicated Branch Circuit(s)
- Max. Line Current: Circuit #01: \_\_\_\_\_
- Connection Type: permanent continuous operation
- Primary Wire Size: 12 AWG (conduit size: 1/2" Secondary Wire Size: 18 awg)

Inspected and labeled in accordance with UL Standard for Electric Signs Installed using UL listed parts and methods of installation in accordance with Article 600 of the National Electric Code and other applicable local codes. This includes proper grounding and bonding.

This sign fabricated using UL approved Acrylic Adhesive for chemical bonding components that use Mercury in them. Dispose of these lamps & components according to the laws of the authority having jurisdiction.

This sign fabricated using UL approved Acrylic Adhesive for chemical bonding



**DENYSE**  
SIGNAGE & ARCHITECTURAL ELEMENTS  
1.800.941.7446  
denyseco.com

© Copyright 2023 All designs and drawings are the property of Denyse Companies, Inc. and shall not be reproduced, published, changed or used in any way without written permission and consent. In addition, all ideas, contents of proposals, and all specifications of any project entered into with Denyse Companies, Inc. are all rights reserved. The drawings and specifications are the property of Denyse Companies, Inc. and shall be used only for the project and location specified. Violators will be prosecuted to the full extent of the law.

**Management Company**  
Cortland

**Property Name & Address**  
Cortland on McKinney  
1900 McKinney Ave  
Dallas, TX 75201

**Opportunity Number**  
61275

**DeNyse Representative**  
Earl Raymond

**Designer**  
hi

**Date**  
05.09.2024

**Revision Date**

06.21.2024 hi  
07.08.2024 hi



**Filepath**  
V:\Drawings and Graphics\Cortland Partners\Cortland on McKinney - Dallas, TX\Concept\COM Rebrand Combined 1 v3

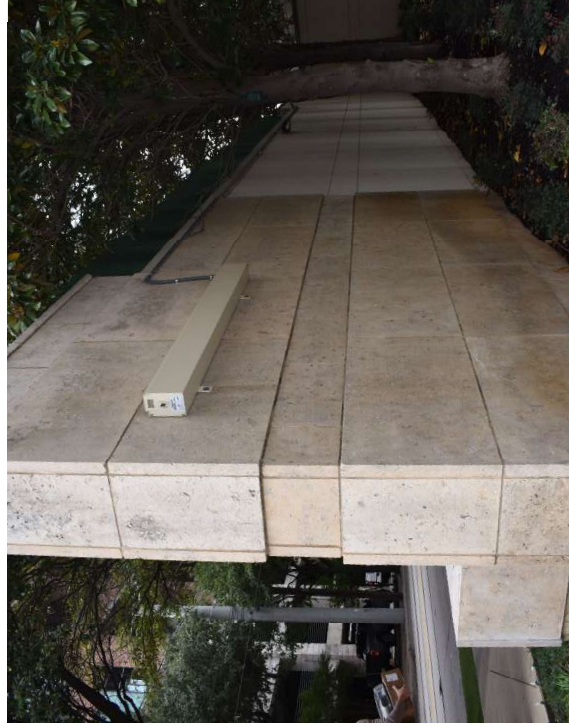
- Concept
- Preliminary
- Production

**18**

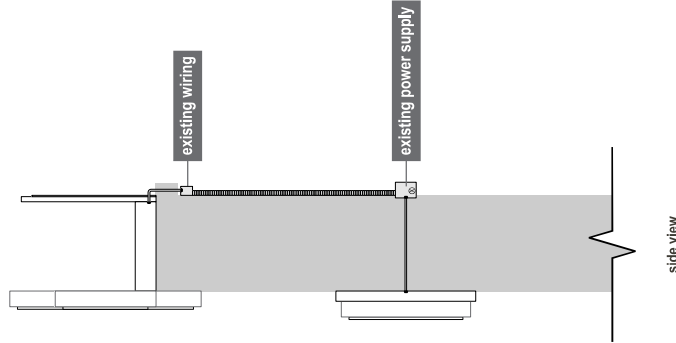
**Main ID - 2: Electrical Detail**

Scale

1/2" = 1'-0"



EXISTING CONDITIONS



This drawing and the intellectual property it represents are the sole property of DeNYSE Companies, Inc.; no portion of it may be reproduced, created, or used for pricing without written permission.

CA-2409070021



existing conditions

**Electrical Notes**

- ⊗ Disconnect switch(es) UL & D labels
- ☑ Vent Location
- FINAL ELECTRICAL CONNECTION AT PANEL BOX BY OTHERS**
- ELECTRICAL CONNECTION WITHIN 5' OF SIGN IS INCLUDED**
- Suitable for Wet Location
- Electrical Requirement: \_\_\_\_\_ Volls
- Number of Circuits: \_\_\_\_\_ 20 amp Dedicated Branch Circuit(s)
- Max. Line Current: Circuit #01: \_\_\_\_\_
- Connection Type: permanent, continuous operation
- Primary Wire Size: 12 AWG / conduit size: 1/2" Secondary Wire Size: 18 awg
- Inspiced and labeled in accordance with UL Standard for Electric Signs
- Installed using UL listed parts and methods of installation in accordance with Article 600 of the National Electric Code and other applicable local codes. This includes proper grounding and bonding.
- UL LISTED
- H9 This lighted product may contain Fluorescent, Neon, HID lamps or components that use Mercury in them. Dispose of these lamps and components according to the laws of the authority having jurisdiction.
- This sign fabricated using UL approved Acrylic-Adhesive for chemical bonding

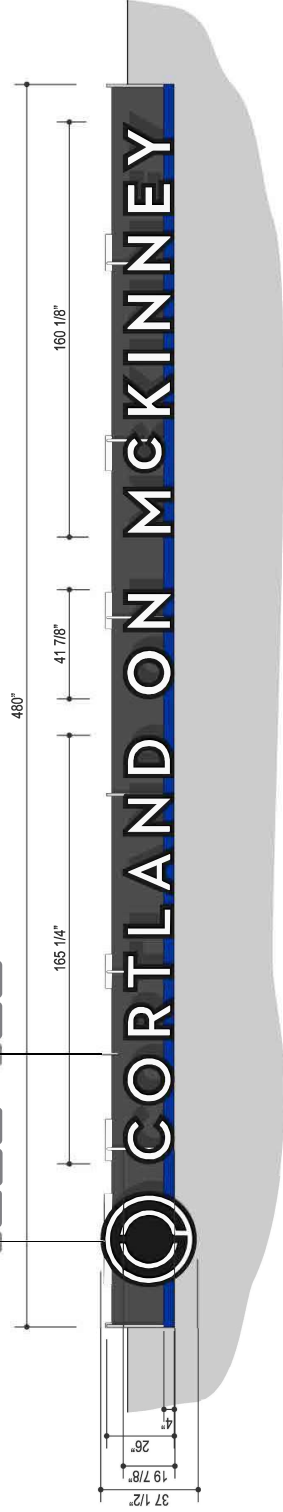
**Colors & Finishes**

Colors shown here may not exactly match manufacturers color chart or actual sample. Request to Miller provides samples or specifications for custom colors prior to production or approve DeNYSE color sample or color specifications.

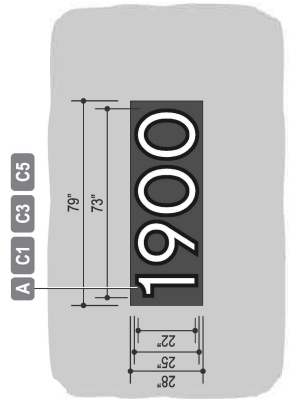
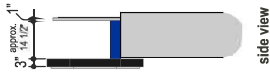
- C1** ● SW 6891 Black Magic
- C3** ● White
- C5** ● PMS Cool Gray 9C
- C6** ● PMS 288C
- C8** ● Matthews Brushed Aluminum

**Construction Specifications**

- A Logo/Copy:** internally illuminated fabricated aluminum channel letters with push-through translucent white acrylic faces; attached to existing wall with painted recessway
- B Backer:** 0.125" painted aluminum with 1" painted aluminum tube accents
- C Address:** fabricated aluminum cabinet with internally illuminated fabricated aluminum channel letters with push-through translucent white acrylic faces; mounted flush to existing wall



42-16



**Main ID - 2**

Scale  
1/4" = 1'-0"

© Copyright 2023. All designs and drawings are the property of DeNYSE Companies, Inc. and may not be reproduced, published, changed or used in any way without written permission and consent. In addition, all ideas, contents of proposals, and all specifications of any project entered into with DeNYSE Companies, Inc. are all rights reserved. No other information may be used without the written permission. Violators will be prosecuted to the full extent of the law.

Management Company  
Cortland

Property Name & Address  
Cortland on McKinney  
1900 McKinney Ave  
Dallas, TX 75201

Opportunity Number  
61275

DeNYSE Representative  
Earl Raymond

Designer  
hi

Date  
05.09.2024

Revision Date  
06.21.2024 hi  
07.08.2024 hi

Filepath  
V:\Drawings and Graphics\Cortland Partners\Cortland on McKinney - Dallas, TX\Concept COM Rebrand Combined 1 v3

- Concept
- Preliminary
- Production



LETTERS ON TOP OF CONC. WALL

BARNETT SIGN  
CORTLAND MCKINNEY

1900 MCKINNEY AVE  
DALLAS, TX

**DENYSE**  
SIGNAGE &  
ARCHITECTURAL  
ELEMENTS  
1.800.941.7446  
denyseco.com

© Copyright 2024 All designs and drawings are the sole property of Denyse Company, Inc. and may not be reproduced, published, changed or used in any way without written permission and consent in addition, all ideas, contents of proposals, and all manifestations of concepts created are the property of Denyse Company, Inc. and all rights are reserved. This document may not be used in securing price comparisons. Violations will be prosecuted to the full extent of the law.

Management Company  
Cortland  
Property Name & Address  
Cortland on McKinney  
1900 McKinney Ave  
Dallas, TX 75201

Opportunity Number  
61275  
Deliverable Representative  
Earl Raymond  
Designer  
H  
Date  
05.09.2024  
Revision Date  
NA  
0

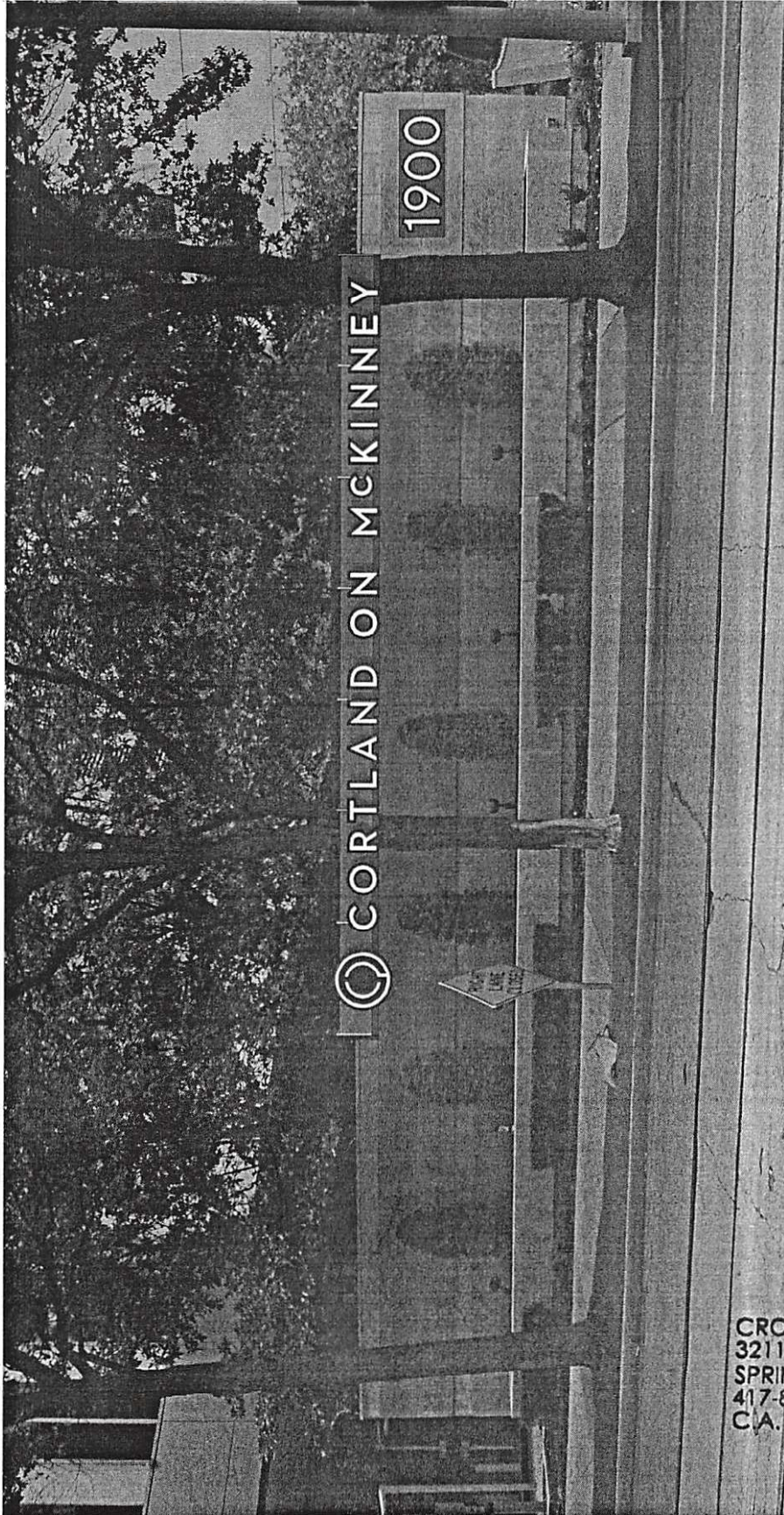
Filepath  
V:\Drawings and  
Graphics\Cortland  
Partners\Cortland on  
McKinney - Dallas,  
TX\Concept  
COM Rebrand Combined  
1.V1

Concept  
 Preliminary  
 Production

13

CA: 2408070021

This drawing and the intellectual property it represents are the sole property of Denyse Company, Inc.; no portion of it may be reproduced, created, or used for pricing without written permission.



Main ID - 2: Proposed Location



*Patrick D. Crocker*  
2024.08.07

CROCKER  
3211 E. SHADY GLEN ST.  
SPRINGFIELD, MO 65804  
417-883-4056  
C.A. F-12467



LETTERS ON TOP OF CONC. WALL

BARNETT SIGN  
CORTLAND MCKINNEY

1900 MCKINNEY AVE  
DALLAS, TX  
2

**DENYSE**

SIGNAGE &  
ARCHITECTURAL  
1800 McKinney Ave  
1.800.941.7146  
denyseco.com

© Copyright 2023 All designs and  
drawings are the sole property of  
Denyse Company, Inc. All rights reserved.  
No part of this document may be  
reproduced, stored in a retrieval system,  
changed or used in any way without  
written permission and consent in  
addition, all lists, contents of  
proposals, and all specifications of  
any project entered into with Denyse  
Company, Inc. are all rights reserved.  
Violations will be  
pursued to the full extent of the law.

Management Company  
Corlland

Property Name & Address  
Corlland on McKinney  
1800 McKinney Ave  
Dallas, TX 75201

Opportunity Number  
61275

Denyse Representative  
Earl Raymond

Designer  
N

Date  
05.09.2024

Revision Date  
NA

Revision  
0

Filepath  
V:\Drawings and  
Graphics\Corlland  
Partners\Corlland on  
McKinney - Dallas,  
TX\Concept  
COM Rebrand Combined  
1\1

Concept   
Preliminary   
Production

12

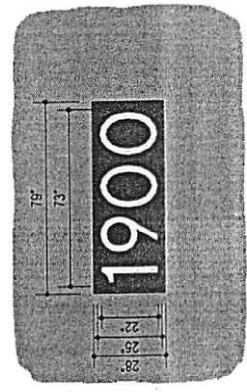
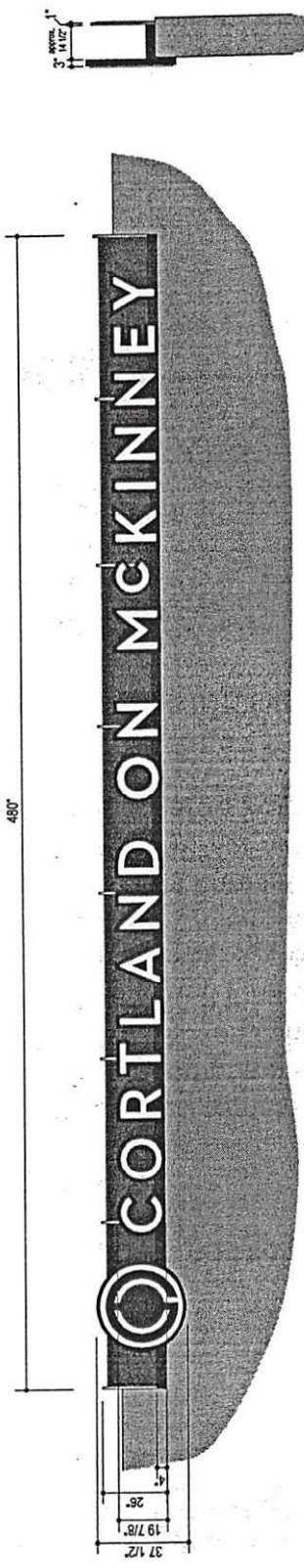
CA: 2408070021

**Colors & Finishes**

Colors shown here are for informational purposes only. Actual colors may vary slightly due to lighting and material texture. Please refer to the color chart for the most accurate representation. Color names are for informational purposes only. Color codes are for production and approval.

- C1**  SW 6991 Black Magic
- C2**  Mathews Brushed Aluminum
- C3**  White
- C5**  PMS Cool Gray 9C
- C6**  PMS 288C

This drawing and the intellectual property it represents are the sole property of Denyse Companies, Inc.; no portion of it may be reproduced, created, or used for pricing without written permission.



Main ID - 2

Scale: 1/4" = 1'-0"

Customer Signature Required



**CROCKER**  
3211 E. SHADY GLEN ST.  
SPRINGFIELD, MO 65804  
417-883-4056  
C.A. F-12467

42718

**Field Survey Required**  
All measurements & site conditions are to be field verified prior to production. Patterns may be required for production.

LETTERS ON TOP  
OF CONC. WALL

BARNETT SIGN  
CORTLAND MCKINNEY

1900 McKinney Ave  
Dallas TX

CA: 2408070021

TOP VIEW

40'

480"

WIND  
IBC 7021  
115 mph



PULLOUT

FRONT

SIDE

1/12 0.92

$$\frac{22''}{12 \frac{1}{4}} \times 40' \times 38.2 = 2801 \text{ lbs} \times 0.92 = 2577 \text{ ft. lbs}$$

$$\frac{8.5}{12} = 0.71$$

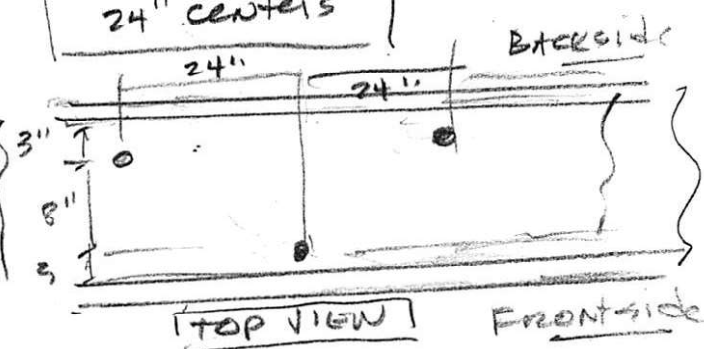
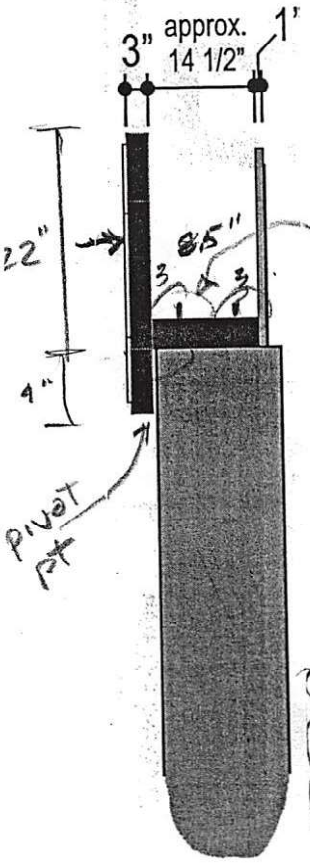
$$\frac{2577 \text{ ft. lbs}}{0.71 \text{ ft}} = 3630 \text{ lbs}$$

363 lbs tension

10 fasteners  
at outside  
under tension

3/8" x 3" deep wedge anchor  
is rated 1415 lbs > 363 lbs  
OK

3/8" wedge anchor x 3" embed  
spaced 8.5" apart on  
24" centers

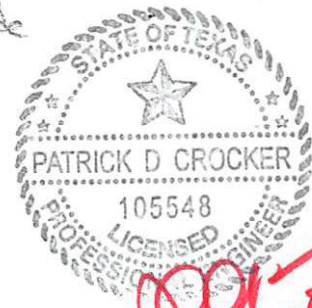


side view

TOP VIEW

FRONT-SIDE

CROCKER  
3211 E. SHADY GLEN ST.  
SPRINGFIELD, MO 65804  
417-883-4056  
C.A. F-12467



2024.08.07



LETTERS ON TOP OF CONC. WALL

CA: 2408070021

BARNETT SIGN  
CORTLAND MCKINNEY

1900 MCKINNEY AVE  
DALLAS, TX

SELECTION CHART

Carbon Steel		Galvanized Steel		302HQ/303** Stainless Steel		316 Stainless Steel		Anchor Diameter & Drill Bit Size/Threads Per Inch	B Max. Thickness of Material to be Fastened	D Min. Embedment in Concrete	Installation Torque (Ft. Lbs.)
Catalog Number	C Thread Length	Catalog Number	C Thread Length	Catalog Number	C Thread Length	Catalog Number	C Thread Length				
WS-1416 WS-1422 WS-1432	3/4" 1-1/4" 2-1/4"			WW-1416 WW-1422 WW-1432	3/4" 1-1/4" 2-1/4"	SWW-1416 SWW-1422	3/4" 3/4"	1/4"/20	1-3/4" 2-1/4" 3-1/4"	3/8" 7/8" 1-7/8"	1-1/8" 8
◆WS-3822 ◆WS-3826 ◆WS-3830 ◆WS-3836 ◆WS-3850	1-1/8" 1-5/8" 1-7/8" 2-5/8" 2-1/2"			◆WW-3822 ◆WW-3826 ◆WW-3830 ◆WW-3836 ◆WW-3850	1-1/8" 1-5/8" 1-7/8" 2-5/8" 2-1/2"	◆SWW-3826 ◆SWW-3836	1-1/8" 1-1/8"	3/8"/16	2-1/4" 2-3/4" 3" 3-3/4" 5"	3/8" 7/8" 1-1/8" 1-7/8" 3-1/8"	1-1/2" 25
◆WS-1226 ◆WS-1236 ◆WS-1242 ◆WS-1254 ◆WS-1270	1-1/4" 2-1/4" 2-3/4" 3" 4-1/2"	◆WS-1226G ◆WS-1242G ◆WS-1254G ◆WS-1270G	1-1/4" 2-3/4" 3" 4-1/2"	◆WW-1226 ◆WW-1236 ◆WW-1242 ◆WW-1254 ◆WW-1270	1-1/4" 2-1/4" 2-3/4" 3" 4-1/2"	◆SWW-1226 ◆SWW-1242	1-5/16" 1-5/16"	1/2"/13	2-3/4" 3-3/4" 4-1/4" 5-1/2" 7"	1/8" 1-1/8" 1-1/2" 2-3/4" 4-1/4"	2-1/4" 55
◆WS-5834 ◆WS-5842 ◆WS-5850 ◆WS-5860 ◆WS-5870 ◆WS-5884	1-3/4" 2-1/2" 3-1/4" 3-1/2" 4-1/2" 1-3/4"	◆WS-5834G ◆WS-5860G	1-3/4" 3-1/2"	◆WW-5834 ◆WW-5850 ◆WW-5860 ◆WW-5870	1-3/4" 3-1/4" 3-1/2" 4-1/2"	◆SWW-5850	1-3/4"	5/8"/11	3-1/2" 4-1/4" 5" 6" 7" 8-1/2"	1/8" 1-1/8" 1-5/8" 2-5/8" 3-5/8" 5-1/8"	2-3/4" 90
◆WS-3442 ◆WS-3446 ◆WS-3454 ◆WS-3462 ◆WS-3470 ◆WS-3484 ◆WS-34100	1-3/4" 2-1/4" 3" 3-3/4" 4-1/2" 1-3/4" 1-3/4"	◆WS-3446G ◆WS-3454G ◆WS-3484G	2-1/4" 3" 1-3/4"	◆WW-3446 ◆WW-3454 ◆WW-3470 ◆WW-3484 ◆WW-34100	2-1/4" 3" 4-1/2" 1-3/4" 1-3/4"	◆SWW-3446 ◆SWW-3454	1-3/4" 1-3/4"	3/4"/10	4-1/4" 4-3/4" 5-1/2" 6-1/4" 7" 8-1/2" 10"	1/4" 3/4" 1-1/2" 2-1/4" 3" 4-1/2" 6"	3-1/4" 175
WS-7860 WS-7880 WS-78100	2-1/2" 2-1/2" 2-1/2"							7/8"/9	6" 8" 10"	1-3/8" 3-3/8" 5-3/8"	3-3/4" 250
†WS-10060 †WS-10090 †WS-100120	2-1/2" 2-1/2" 2-1/2"	†WS-10090G	2-1/2"	WW-10060 WW-10090	2-1/2" 2-1/2"			1"/8	6" 9" 12"	1/2" 3-1/2" 6-1/2"	4-1/2" 300
†WS-12590 †WS-125120	3-1/2" 3-1/2"							1-1/4"/7	9" 12"	2-1/4" 5-1/4"	5-1/2" 500
Tie Wire TWS-1400	N/A							1/4"	2-3/16"	Eye Dia. 9/32"	1-1/8" N/A

PERFORMANCE CHARTS  
CARBON STEEL

STAINLESS STEEL

Anchor Size	Embedment in Concrete	4000PSI		Anchor Size	Embedment in Concrete	4000PSI	
		Ultimate Pullout* Lbs.	Ultimate Shear* Lbs.			Ultimate Pullout* Lbs.	Ultimate Shear* Lbs.
1/4"	1-1/8"	1559	1828	1/4"	1-1/8"	1869	2354
	1-15/16"	2999	1910		1-15/16"	3084	2375
	2-3/4"	3051	1991		2-3/4"	3102	2395
3/8"	1-1/2"	3219	4029	3/8"	1-1/2"	3145	4338
	3" 4-1/2"	5678 5935	4305 4581		3" 4-1/2"	5661 6395	5012 5686
1/2"	2-1/4"	5384	6900	1/2"	2-1/4"	6032	9542
	4-1/8"	7333	7449		4-1/8"	8593	9773
	6"	9003	7998		6"	9974	10003
5/8"	2-3/4"	8000	12478	5/8"	2-3/4"	7646	13339
	5-1/8"	10178	13285		5-1/8"	11897	14227
	7-1/2"	12453	14092		7-1/2"	12791	15115
3/4"	3-1/4"	9921	18128	3/4"	3-1/4"	10069	18773
	6-5/8"	16489	18585		6-3/8"	16027	21795
	10"	19953	19042		9"	16839	24153
7/8"	3-3/4"	13672	25122	7/8"	3-3/4"	15295	26198
	6-1/4"	20029	25122		6-1/4"	18687	28826
	8-3/4"	20707	25122		8-3/4"	25311	30018
1"	4-1/2"	20871	28431	1"	4-1/2"	18988	33408
	7-3/8"	30610	29763		7-3/8"	20764	36260
	10-1/4"	37820	31094		10-1/4"	22755	39111
1-1/4"	5-1/2"	27166	44385				
	8"	53261	46776				
	10-1/2"	60417	48689				
Tie Wire	1-1/8"	1559	N/A				

\*Ultimate load capacity in 4,000 PSI stone aggregate concrete. Ultimate pullout and shear loads are indicated for the depth of embedment in concrete shown in the "Embedment in Concrete" column. Based on independent Testing Laboratory tests, ATEC Associates, Inc. Report #5-3205 dated 12/11/85. Copies of reports available on request.

1-1/4" diameter carbon steel anchors were tested at a depth of 10-1/2" for tensile capacities, and 10" for shear. 1" diameter stainless steel anchors were tested at a depth of 10-1/2" for tensile capacities, and 10-1/4" for shear. Safe working loads for single installations under static loading should not exceed 25% of the ultimate load capacity. For information on other conditions, contact your nearest factory representative.

†Carbon steel anchor sizes through 7/8" in diameter have stainless steel expansion clips. Larger diameter carbon steel and galvanized anchors have carbon steel expansion clips. All size stainless steel anchors have stainless steel expansion clips.

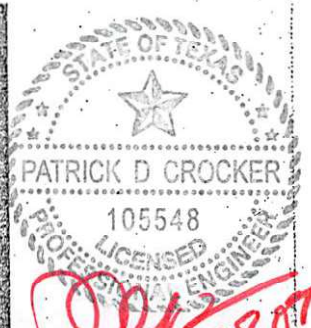
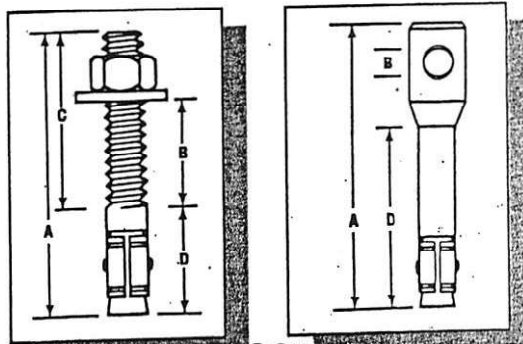
For load capacities in structural lightweight aggregate concrete, refer to ICBO Report #1372 or contact Technical Service Department.

For extreme low temperature applications use stainless steel anchors.

NOTE: Capacities shown in Selection Chart are based on most recent testing performed in compliance with ASTM E-488 and ICBO Research Committee Standards for Testing Expansion Anchors in Concrete.

◆Indicates Approval. ◆Indicates Listing.

\*\*WW" anchor body material may be Type 303 or Type 302HQ according to metal forming efficiency. Type 302HQ meets corrosion resistant properties of Type 303 and 304.



pullout →  $\frac{5661}{4} = 1415 \text{ lbs}$   
shear →  $\frac{5012}{4} = 1253 \text{ lbs}$

CROCKER  
3211 E. SHADY GLEN ST.  
SPRINGFIELD, MO 65804  
417-883-4056  
C.A. F-12467

**Patrick D. Crocker, P.E.**

3211 E. Shady Glen St.  
Springfield, MO 65804  
417-883-4056

JOB TITLE Barnett - Cortland McKinney Dallas TX  
channel Letters 12 ft wall

JOB NO. \_\_\_\_\_ SHEET NO. \_\_\_\_\_  
CALCULATED BY \_\_\_\_\_ DATE \_\_\_\_\_  
CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_

**Wind Loads - Other Structures:**

ASCE 7- 16

Ultimate Wind Pressures

Wind Factor = 1.00  
Gust Effect Factor (G) = 0.85 Ultimate Wind Speed = 115 mph  
Kzt = 1.00 Exposure = C

**A. Solid Freestanding Walls & Solid Signs (& open signs with less than 30% open)**

Dist to sign top (h)	12.0 ft	s/h =	0.25	<u>Case A &amp; B</u>	
Height (s)	3.0 ft	B/s =	13.33	C <sub>1</sub> =	1.84
Width (B)	40.0 ft	Lr/s =	0.00	F = qh G C <sub>f</sub> A <sub>s</sub> =	38.2 As
Wall Return (Lr) =		Kz =	0.849	A <sub>s</sub> =	10.0 sq ft
Directionality (Kd)	0.85	qh =	24.4 psf	F =	382 lbs
Percent of open area to gross area	0.0%	Open reduction factor =	1.00	<u>Case C</u>	
		<u>Case C reduction factors</u>		Horiz dist from windward edge	C <sub>f</sub> F=qhGC <sub>f</sub> A <sub>s</sub> (psf)
		Factor if s/h>0.8 =	1.00	0 to s	4.00 83.1 As
		Wall return factor for C <sub>f</sub> at 0 to s =	1.00	s to 2s	2.60 54.0 As
				2s to 3s	2.00 41.5 As
				3s to 4s	1.50 31.2 As
				4s to 5s	1.36 28.1 As
				5s to 10s	0.90 18.7 As
				>10s	0.55 16.0 As



CROCKER  
3211 E. SHADY GLEN ST.  
SPRINGFIELD, MO 65804  
417-883-4056  
C.A. F-12467