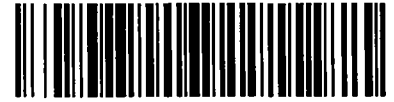




City of Chicago



Or2017-567

Office of the City Clerk

Document Tracking Sheet

Meeting Date:	11/8/2017
Sponsor(s):	Curtis (18)
Type:	Order
Title:	Issuance of permits for sign(s)/signboard(s) at 7601 S Cicero Ave - 870 sq. ft.
Committee(s) Assignment:	Committee on Zoning, Landmarks and Building Standards

CITY COUNCIL
COMMITTEE ON ZONING, LANDMARKS AND BUILDING STANDARDS

COUNCIL ORDER

RE: Approval of sign over 100 square feet in area or over 24 feet above grade

ORDERED, that the City Council hereby approves the following sign application submitted by:

Applicant*: Ford City mall - Frank Leon
(* The Applicant is the owner of the real property or the business tenant of the real property. Do not list the sign contractor, sign erector, sign company or advertising entity in the above space.)

This Order approves the following sign in accordance with Municipal Code of Chicago Section 13-20-680:

Address of Sign: 7601 S. Cicero 60652 Chicago, IL 606

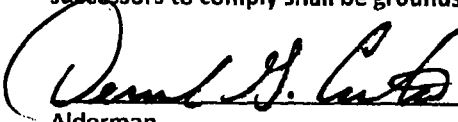
Zoning District: _____

DOB Sign Permit Application #: _____

Sign Details:

1. On-premise OR Off-premise _____
2. Static sign OR Dynamic-image display sign _____
3. Number of sign faces 2
4. Projecting over the public way N (Yes or No) If yes, Public Way Use #: _____
5. Dimensions: Length 35 feet 6 inches Height 24 feet 6 inches
Total square feet in area: 870 feet _____ inches see attached
6. Height above grade: 7 feet _____ inches
7. Elevation (side of building or lot where the sign will be erected): Corner of 74th + Cicero
8. Name of Sign Contractor/Erector: All Right Sign inc

To be legal, such sign shall comply with all provisions of Title 17 of the Chicago Municipal Code ("Zoning Ordinance") and all other provisions of the Municipal Code governing the permitting, construction and maintenance and removal of signs and sign structures. Failure of the applicant and the applicant's successors to comply shall be grounds for invalidation or revocation of the sign permit.


Alderman

18th
Ward

1000

NOTE: PERMITS AND APPROVALS ARE NOT REQUIRED TO OBTAIN PERMITS FOR THE INSTALLATION OF SIGN MATERIALS, ETC. BEFORE PERMITTING MANUFACTURE AND INSTALLATION OF NEW SIGNS.

THIS DOCUMENT IS THE PROPERTY OF QUANTUM SIGN CORPORATION. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

LEFT SIDE OF SIGN INCLUDING "AMC THEATRES" AREA AND REVEAL IS 25'-8" W. X 17'-0" H. (436.33 SQUARE FEET)

RIGHT SIDE OF SIGN INCLUDING "FORD CITY" AREA, DIGITAL DISPLAY AND REVEAL IS 9'-10" W. X 24'-6" H. (240.92 SQUARE FEET)

"FORD CITY MALL" SECTION
NEW SINGLE-FACED INTERNALLY ILLUMINATED CABINET PAINTED TO MATCH MATTHEWS 41342 SP BRUSHED ALUMINUM WITH RETAINERLESS FLEXIBLE FACE DECORATED WITH VINYL GRAPHICS

"AMC THEATRES" SECTION
NEW DOUBLE-FACED INTERNALLY ILLUMINATED CABINET PAINTED WHITE WITH RETAINERLESS FLEXIBLE FACE DECORATED WITH VINYL GRAPHICS.

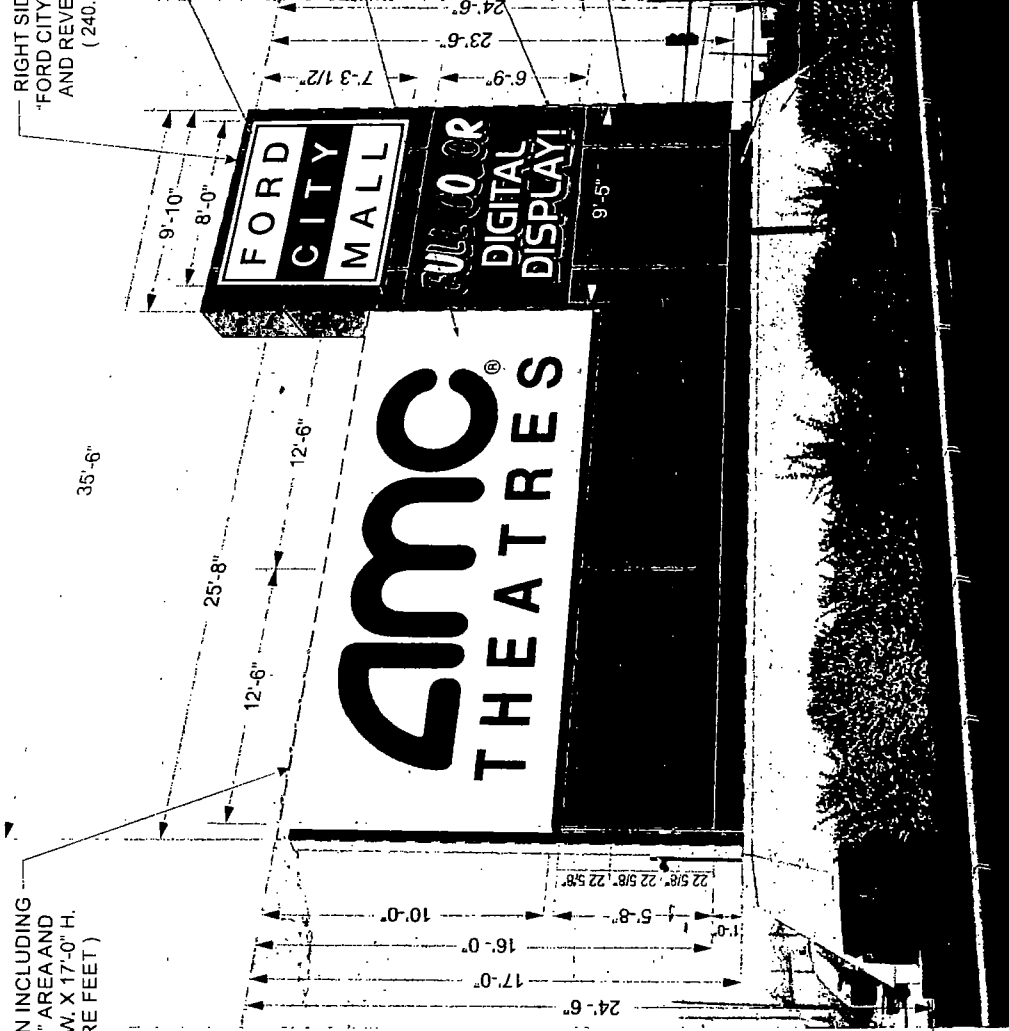
NEW DIGITAL DISPLAY SHALL BE DAKTRONICS OR EQUAL
15.85 MM FULL-COLOR RGB LED DIGITAL DISPLAY (EMC) IN A 120 X 175 PIXEL MATRIX

NEW 090 ALUMINUM DECORATIVE PANELS PAINTED TO MATCH SHERWIN WILLIAMS SW 7032 WARM STONE TO COVER EXISTING YELLOW COLUMN AREAS OF SIGN

NEW ROUTED-OUT ALUMINUM / WHITE POLYCARBONATE BACK-UP PANELS PAINTED TO MATCH SHERWIN WILLIAMS SW 7032 WARM STONE

APPROX 1'-0" HT REVEAL PAINTED TO MATCH SHERWIN WILLIAMS SW 7034 STATUS BRONZE

NEW ALUMINUM SIGN BASE PAINTED TO MATCH SHERWIN WILLIAMS SW 7030 ANEW GRAY



NORTH ELEVATION - WITH PROPOSED REMODEL
N.T.S.

SIGN A - OPTION A
677.25 SQUARE FEET TOTAL

QTY. ONE (1) REMODEL OF EXISTING DOUBLE-FACED MONUMENT SIGN
AT INTERSECTION OF 76TH STREET AND CICERO AVENUE



NORTH ELEVATION - AS IS
N.T.S.

Customer: Mid-America Asset Management, Inc.
Job Name: Ford City Mall
Address: 7601 S Cicero Avenue
City: Chicago

Scale: As Noted
File Name: Ford City Mall - Chicago Monument PERMIT A.cdr
Salesperson: Tom Campagna

Rev. Date: 7-25-2017
Rev. Date: 3-31-2017
Rev. Date: 3-27-2017
Orig. Date: 12-8-2016

Drawn By: TV
Page 1 of 2

QUANTUM
SIGN CORPORATION
www.quantumsigncorp.com

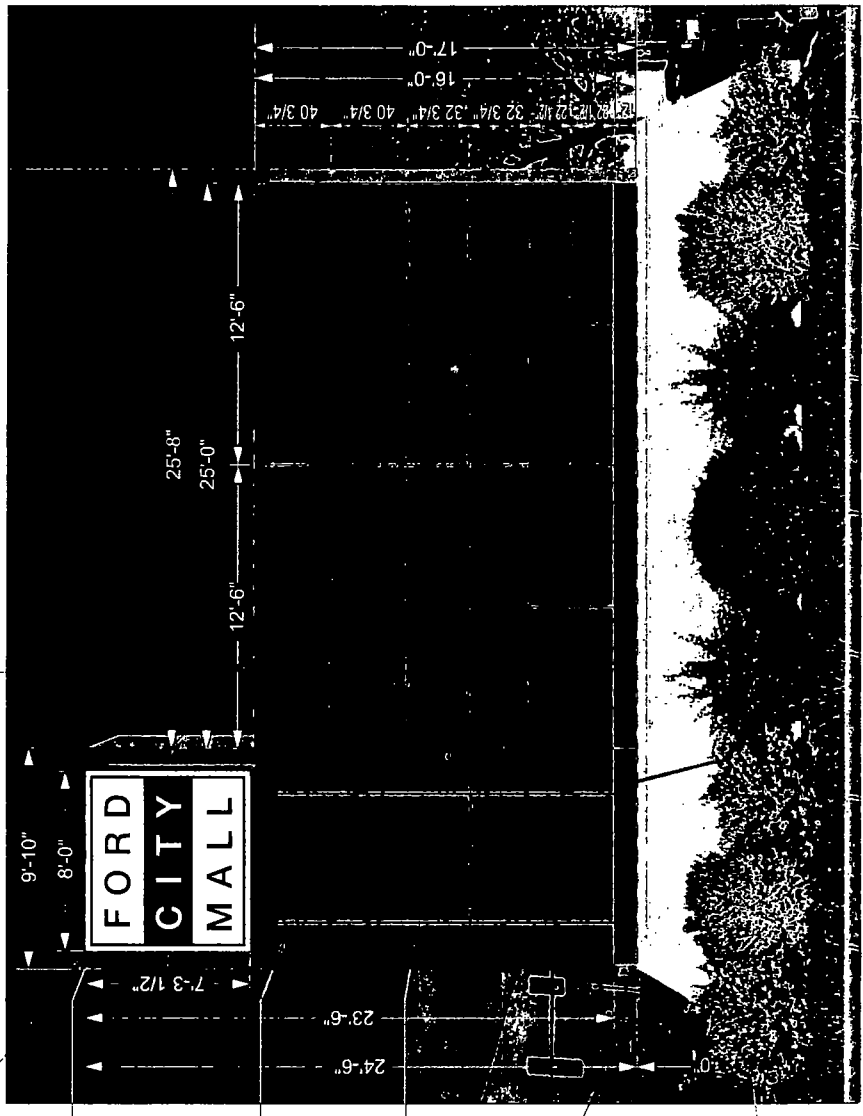
693 Heffland Drive - Sugar Grove, IL 60554
630.466.0372 P 630.466.0544 F

NOTE: FIELD MEASUREMENT SURVEY REQUIRED TO DETERMINE ACTUAL SIZES, CONDITIONS, MATERIALS, ETC. BEFORE PERMITTING. MANUFACTURE AND INSTALLATION OF NEW SIGNS.

For more information on the services we offer, visit our website at www.quantumsigncorp.com. For more information on the services we offer, visit our website at www.quantumsigncorp.com.

LEFT SIDE OF SIGN INCLUDING "FORD CITY" AREA AND REVEAL IS 9'-10" W. X 24'-6" H. (240 92 SQUARE FEET)

RIGHT SIDE OF SIGN INCLUDING REVEAL IS 25'-8" W. X 17'-0" H. (436.33 SQUARE FEET)



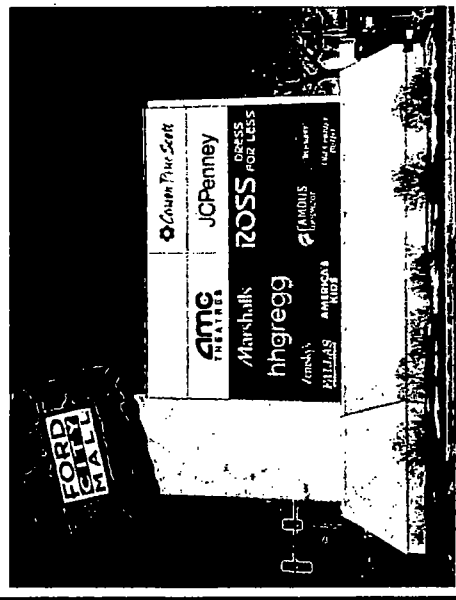
"FORD CITY MALL" SECTION: NEW SINGLE-FACED INTERNALLY ILLUMINATED CABINET WITH RETAINERLESS FLEXIBLE FACE DECORATED WITH VINYL GRAPHICS PAINTED TO MATCH MATTHEWS 41342 SP BRUSHED ALUMINUM

NEW 090 ALUMINUM DECORATIVE PANELS PAINTED TO MATCH SHERWIN WILLIAMS SW 7032 WARM STONE TO COVER EXISTING YELLOW COLUMN AREAS OF SIGN.

MULTI-TENANT SECTION: NEW MULTI-TENANT SECTION OF SIGN WITH ROUTED-OUT ALUMINUM / WHITE POLYCARBONATE BACK-UP PANELS PAINTED TO MATCH SHERWIN WILLIAMS SW 7032 WARM STONE.

APPROX. 1'-0" HT. REVEAL PAINTED TO MATCH SHERWIN WILLIAMS SW 7034 STATUS BRONZE.

NEW ALUMINUM SIGN BASE TO MATCH SHERWIN WILLIAMS SW 7030 ANEW GRAY.



SOUTH ELEVATION - WITH PROPOSED REMODEL
SCALE 3/16" = 1'-0"

SIGN B

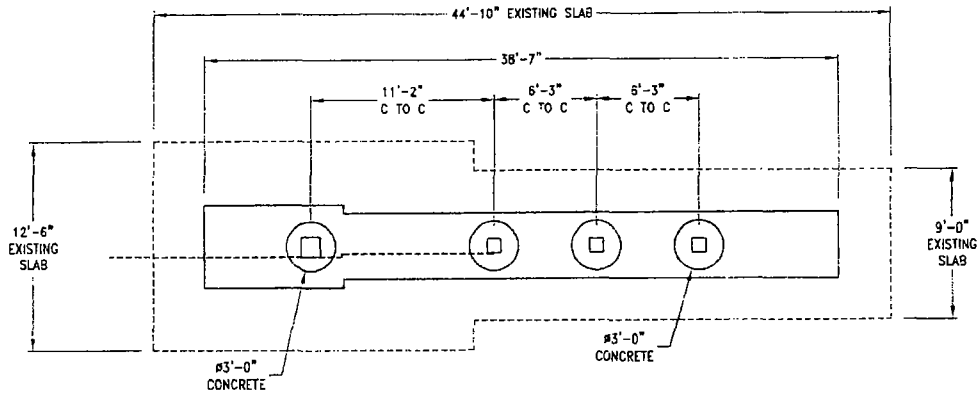
677.25 SQUARE FEET TOTAL

QTY. ONE (1) REMODEL OF EXISTING DOUBLE-FACED MONUMENT SIGN AT INTERSECTION OF 74TH PLACE AND CICERO AVENUE.

<p>Customer: Mid-America, an Asselmann Group, Inc. Job Name: Ford City Mall Address: 7601 S. Cicero Avenue City: Chicago</p>	<p>Scale: As Noted File Name: Ford City Mall - Chicago Monument PERMIT A.cdr Salesperson: Tom Campagna</p>	<p>Rev. Date: 7-25-2017 Rev. Date: 3-31-2017 Rev. Date: 3-27-2017 Orig. Date: 12-4-2016</p>	<p>Drawn By: TV Page 2 of 2</p>
<p>Customer: Mid-America, an Asselmann Group, Inc. Job Name: Ford City Mall Address: 7601 S. Cicero Avenue City: Chicago</p>		<p>Rev. Date: 7-25-2017 Rev. Date: 3-31-2017 Rev. Date: 3-27-2017 Orig. Date: 12-4-2016</p>	
<p>Customer: Mid-America, an Asselmann Group, Inc. Job Name: Ford City Mall Address: 7601 S. Cicero Avenue City: Chicago</p>		<p>Rev. Date: 7-25-2017 Rev. Date: 3-31-2017 Rev. Date: 3-27-2017 Orig. Date: 12-4-2016</p>	

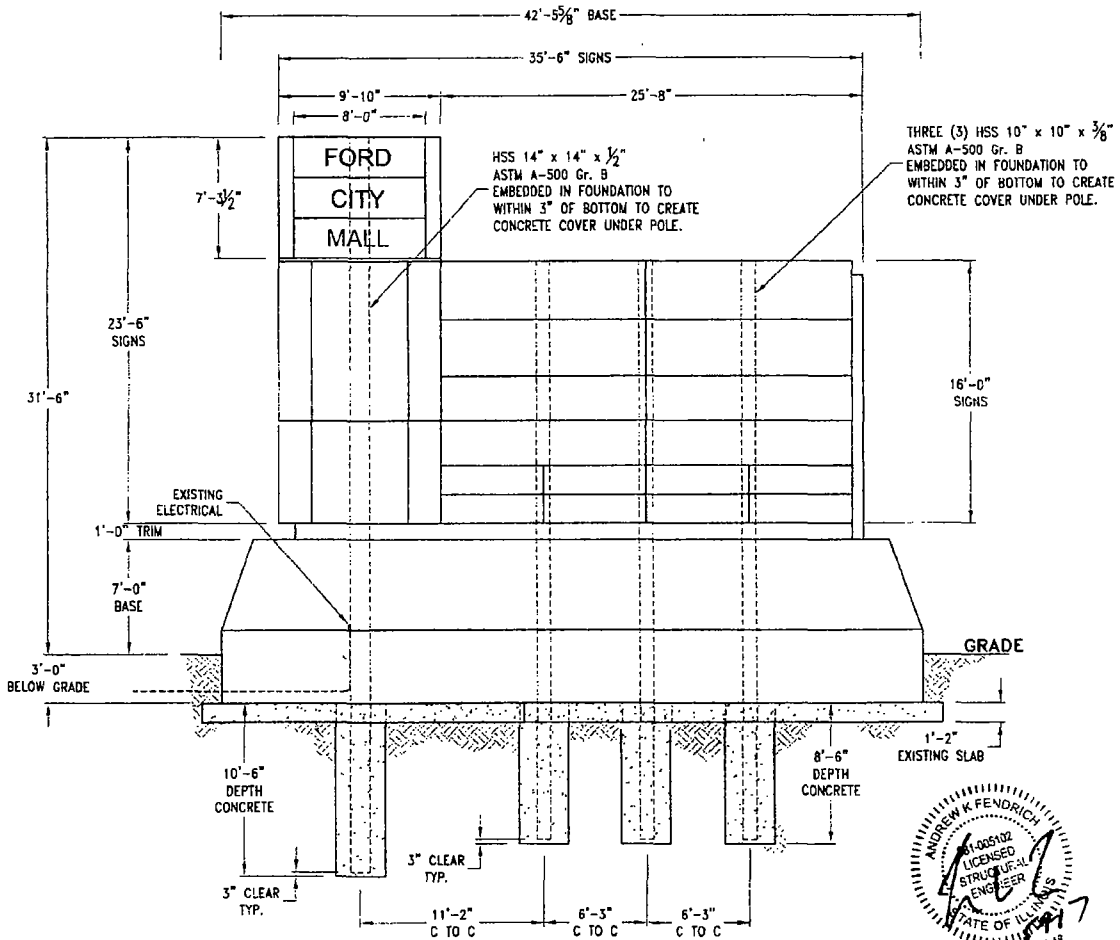


SOUTH ELEVATION - AS IS
N.T.S.



PLAN VIEW
QTY. CONCRETE: 2.3 CU. YDS.

PLAN VIEW
QTY. CONCRETE: 2.0 CU. YDS. EACH



ELEVATION VIEW

SITE:
Ford City Mall
7601 South Cicero Avenue
Chicago, Illinois 60652

FOUNDATION NOTES:

1. Concrete shall have a minimum compressive strength of 3,000 PSI at 28 days.
2. Caisson footing designed using a soil bearing force of 250 PSF per foot Lateral.

DESIGN WIND LOAD: 30.0 PSF

Based on the Chicago Building Code 16 (13-52-310) (f) 1a for solid signs.

REV	DATE	DESCRIPTION	APPROVED
A	08 May 17	RELEASED FOR PERMITTING	J. HOGAN
Robert-James & Associates, Inc.			
12255 West 187th Street, Mokena Illinois 60448-9737 phone: 708-479-8385 fax: 708-479-8395 email: rja37@comcast.net			
TITLE			
FOUR 31'-6" OAH DIRECT BURY POLES FOR REPLACEMENT ID & TENANT SIGNS			
DRAWN BY	J. GREENAN	DATE	08 May 17
CHECKED BY	J. HOGAN	DATE	08 May 17
SCALE	NONE	DRAWING NUMBER	1705040
SHEET	1 OF 1	REV	A

12255 West 187th Street
Mokena, Illinois 60448
(708) 479-8385

File : QuantumSgn&Fab012a.mcd

Site : Ford City Mall
7601 South Cicero Avenue
Chicago, Illinois 60652

Project : Design of direct bury pole structures and caisson footings for replacement signage and base trim. Caisson footings will be set placed in cored holes thru existing 1'-2" thick slab footing where top of slab is 3'-0" below grade. This will be done for both the South and North elevation sign pylons.
Drawing No. 1705040 rev. A

Design Wind Load : (PSF) WL := 30.0 Based on the Chicago Building Code 16 (13-52-310) (f) 1a.

Reference : Manual of Steel Construction, AISC 13th Edition.

Tube : ASTM A-500 Gr B Fy = 46.0 ksi. ; Fb = 30.36 ksi. ; Fv = 18.40 ksi.

Reference : American Concrete Institute, Code 318.10

Rebar : ASTM A-615 Grade 60 Fy = 60.0 ksi.

Concrete : 3,000 psi. compressive strength at 28 days.

Design Loads at Top of Footing for the 16'-0" x 25'-0" Sign Section : (3'-0" Below Grade.)

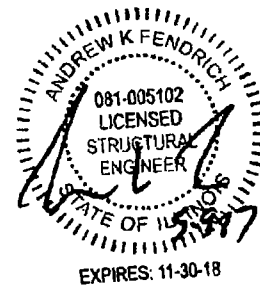
$$\text{Signage : SgnTrm} := (17.0 \cdot 25.67 \cdot \text{WL}) \cdot \left[\left(\frac{17.0}{2} \right) + 10.0 \right] \quad \text{SgnTrm} = 242196.45 \quad \text{ft.lbs.}$$

(Including 1'-0" of base trim and 8" of side trim.)

$$\text{Base : Base} := (7.0 \cdot 28.42 \cdot \text{WL}) \cdot \left[\left(\frac{7.0}{2} \right) + 3.0 \right] \quad \text{Base} = 38793.3 \quad \text{ft.lbs.}$$

$$\text{Moment : (ft.lbs.) } \quad \text{MtTOF} := \text{SgnTrm} + \text{Base} \quad \text{MtTOF} = 280989.75$$

$$\text{Shear : (lbs.) } \quad \text{ShrTOF} := (17.0 \cdot 25.67 \cdot \text{WL}) + (7.0 \cdot 28.42 \cdot \text{WL}) \quad \text{ShrTOF} = 19059.9$$



Design of Pole Structures at Top of Footing for the 16'-0" x 25'-0" Sign Section :

$$\text{Section Modulus of Tube : (in.}^3\text{) } \quad \text{HSS 10" x 10" x 3/8" wall - TubeSM} := 40.4$$

$$\text{Moment per Pole : (ft.lbs.) } \quad \text{MtPoleTOF} := \frac{\text{MtTOF}}{3} \quad \text{MtPoleTOF} = 93663.25$$

$$\text{Bending Stress : (psi.) } \quad f_b := \frac{\text{MtPoleTOF} \cdot 12}{\text{TubeSM}} \quad f_b = 27820.767$$

$$\text{Area of Tube : (in.}^2\text{) } \quad \text{HSS 10" x 10" x 3/8" wall - TubeArea} := 13.2$$

$$\text{Shear per Pole : (lbs.) } \quad \text{ShrPoleTOF} := \frac{\text{ShrTOF}}{3} \quad \text{ShrPoleTOF} = 6353.3$$

$$\text{Shear Stress : (psi.) } \quad f_v := \frac{\text{ShrPoleTOF}}{\text{TubeArea}} \quad f_v = 481.311$$

Unity Check - Poles :
$$UCPoles := \frac{f_b}{30360} + \frac{f_v}{18400} \quad UCPoles = 0.943 < 1.00 \quad \text{OK}$$

Design of Caisson Footings :

Overturing Moment : (ft.lbs.) $Ma := MtPoleTOF \quad Ma = 93663.25$

Shear : (lbs.) $Va := ShrPoleTOF \quad Va = 6353.3$

Applied Lateral Force : (lbs.) $P := Va \quad P = 6353.3$

Allowable Lateral Soil Pressure : (lbs./ft.² per ft.) $LP := 250$

Diameter of Round Footing : (ft.) $b1 := 3.0$

Distance in Feet From Ground Surface to Point of Application of "P" $h := \frac{Ma}{Va} \quad h = 14.742$

Depth of Footing Below the Top of the Existing Slab : (ft.) $d1 := 8.5$
(3'-0" below grade.)

Allowable Lateral Soil Bearing Pressure Pursuant to the 2012 International Building Code Section 1807.3.2.2 and Table 1806.2. $S3 := d1 \cdot LP \quad S3 = 2125$

Required Depth : (ft.) $d2 := \sqrt{4.25 \cdot \left(\frac{P \cdot h}{S3 \cdot b1} \right)} \quad d2 = 7.902 \leq d1 = 8.5 \quad \text{OK}$

Check Tensile Stress in Footing :

Overturing Moment About Heel Point : (ft.lbs.) $Mh := Ma + (Va \cdot d1) \quad Mh = 147666.3$
Treat as a cantilever at bottom.

Compressive Strength of Concrete : (psi.) $fc := 3000$

Yield Strength of Rebar : (psi.) $fy := 60000$

Section Modulus of Footing : (in.³) $Sw := \frac{\pi \cdot (b1 \cdot 12)^3}{32} \quad Sw = 4580.442$

Allowable Concrete Stress : (psi.) $\phi Ft := 0.65 \cdot (5 \cdot \sqrt{fc}) \quad \phi Ft = 178.01$

Tensile Stress in Concrete : (psi.) $ft := \left[\frac{(Mh \cdot 12)}{Sw} \right] \quad ft = 386.861 > \phi Ft = 178.01$
REBAR REQUIRED FOR STRESS

Design of Reinforcing Steel in Caisson :

Moment for USD Design : $Mu := 1.7 \cdot Mh \quad Mu = 251032.71$

$d := [(b1 \cdot 12) \cdot .80] - \left[\frac{(b1 \cdot 12) - 10.0}{2} \right] \quad d = 15.8$

To Plot for "ju" : $coeff := \frac{Mu \cdot 12}{fc \cdot b1 \cdot 12 \cdot d^2} \quad coeff = 0.112 \quad ju := 0.88$

Use yield strength of direct bury tube to check

Yield Strength of Tube : (psi.) $f_y := 46000$

Required Area : (in.²) $A_s := \frac{M_u \cdot 12}{j_u \cdot f_y \cdot d \cdot 0.90}$ $A_s = 5.233$

Reinforcement Requirement : $A_s = 5.233 < \text{TubeArea} = 13.2$

No rebar required with the direct bury tube.

Quantity of Concrete : (yds.³) $CY := \left(\frac{\pi \cdot b_1^2 \cdot d_1}{4 \cdot 27} \right) - \left[\frac{0.83^2 \cdot (d_1 - 0.25)}{27} \right]$ $CY = 2.015$ Each

Note: Keep bottom of tube 3" from bottom of footing to create concrete cover for water exclusion.

Design Loads at Top of Footing for the 23'-6" x 9'-10" Section : (3'-0" Below Grade.)

Signage : $\text{SgnTrm} := (24.5 \cdot 9.83 \cdot \text{WL}) \cdot \left[\left(\frac{24.5}{2} \right) + 10.0 \right]$ $\text{SgnTrm} = 160757.363$ ft.lbs.
(Including 1'-0" of base trim.)

Base : $\text{Base} := (7.0 \cdot 11.42 \cdot \text{WL}) \cdot \left[\left(\frac{7.0}{2} \right) + 3.0 \right]$ $\text{Base} = 15588.3$ ft.lbs.

Moment : (ft.lbs.) $M_t\text{TOF} := \text{SgnTrm} + \text{Base}$ $M_t\text{TOF} = 176345.663$

Shear : (lbs.) $\text{ShrTOF} := (24.5 \cdot 9.83 \cdot \text{WL}) + (7.0 \cdot 11.42 \cdot \text{WL})$ $\text{ShrTOF} = 9623.25$

Design of Pole Structures at Top of Footing for the 23'-6" x 9'-10" Section :

Section Modulus of Tube : (in.³) HSS 14" x 14" x 3/8" wall - $\text{TubeSM} := 82.5$

Bending Stress : (psi.) $f_b := \frac{M_t\text{TOF} \cdot 12}{\text{TubeSM}}$ $f_b = 25650.278$

Area of Tube : (in.²) HSS 14" x 14" x 3/8" wall - $\text{TubeArea} := 18.7$

Shear Stress : (psi.) $f_v := \frac{\text{ShrTOF}}{\text{TubeArea}}$ $f_v = 514.612$

Unity Check - Poles : $\text{UCPoles} := \frac{f_b}{30360} + \frac{f_v}{18400}$ $\text{UCPoles} = 0.873 < 1.00$ OK

Design of Caisson Footing :

Overturing Moment : (ft.lbs.) $M_a := M_t\text{TOF}$ $M_a = 176345.663$

Shear : (lbs.) $V_a := \text{ShrTOF}$ $V_a = 9623.25$

Applied Lateral Force : (lbs.) $P := V_a$ $P = 9623.25$

Allowable Lateral Soil Pressure : (lbs./ft.² per ft.) $\text{LP} := 250$

Diameter of Round Footing : (ft.)

$b1 := 3.0$

Distance in Feet From Ground Surface
to Point of Application of "P"

$$h := \frac{Ma}{Va}$$

$h = 18.325$

Depth of Footing Below the Top of the Existing Slab : (ft.)
(3'-0" below grade.)

$d1 := 10.5$

Allowable Lateral Soil Bearing Pressure Pursuant
to the 2012 International Building Code Section
1807.3.2.2 and Table 1806.2.

$S3 := d1 \cdot LP$

$S3 = 2625$

Required Depth : (ft.)

$$d2 := \sqrt{4.25 \cdot \left(\frac{P \cdot h}{S3 \cdot b1} \right)}$$

$d2 = 9.756 \leq d1 = 10.5 \quad \text{OK}$

Check Tensile Stress in Footing :Overturning Moment About Heel Point : (ft.lbs.)
Treat as a cantilever at bottom.

$Mh := Ma + (Va \cdot d1)$

$Mh = 277389.787$

Compressive Strength of Concrete : (psi.)

$fc := 3000$

Yield Strength of Rebar : (psi.)

$fy := 60000$

Section Modulus of Footing : (in.³)

$$Sw := \frac{\pi \cdot (b1 \cdot 12)^3}{32}$$

$Sw = 4580.442$

Allowable Concrete Stress : (psi.)

$\phi Ft := 0.65 \cdot (5 \cdot \sqrt{fc})$

$\phi Ft = 178.01$

Tensile Stress in Concrete : (psi.)

$$ft := \left[\frac{(Mh \cdot 12)}{Sw} \right]$$

$ft = 726.715 > \phi Ft = 178.01$

REBAR REQUIRED FOR STRESS

Design of Reinforcing Steel in Caisson

Moment for USD Design :

$Mu := 1.7 \cdot Mh$

$Mu = 471562.639$

$$d := [(b1 \cdot 12) \cdot .80] - \left[\frac{(b1 \cdot 12) - 14.0}{2} \right]$$

$d = 17.8$

To Plot for "ju" :

$$\text{coeff} := \frac{Mu \cdot 12}{fc \cdot b1 \cdot 12 \cdot d^2} \quad \text{coeff} = 0.165$$

$ju := 0.65$

Use yield strength of direct bury tube to check

Yield Strength of Tube : (psi.)

$fy := 46000$

Required Area : (in.²)

$$As := \frac{Mu \cdot 12}{ju \cdot fy \cdot d \cdot 0.90}$$

$As = 11.814$

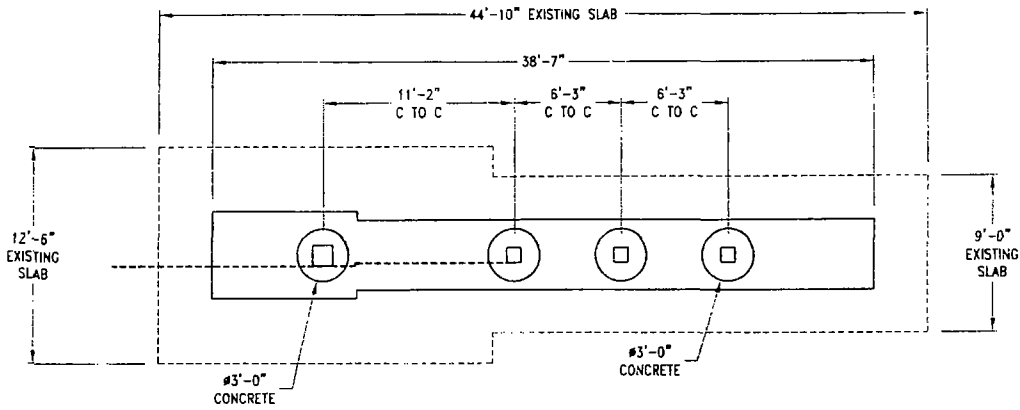
Reinforcement Requirement

$As = 11.814 < \text{TubeArea} = 18.7$

No rebar required with the direct bury tube.

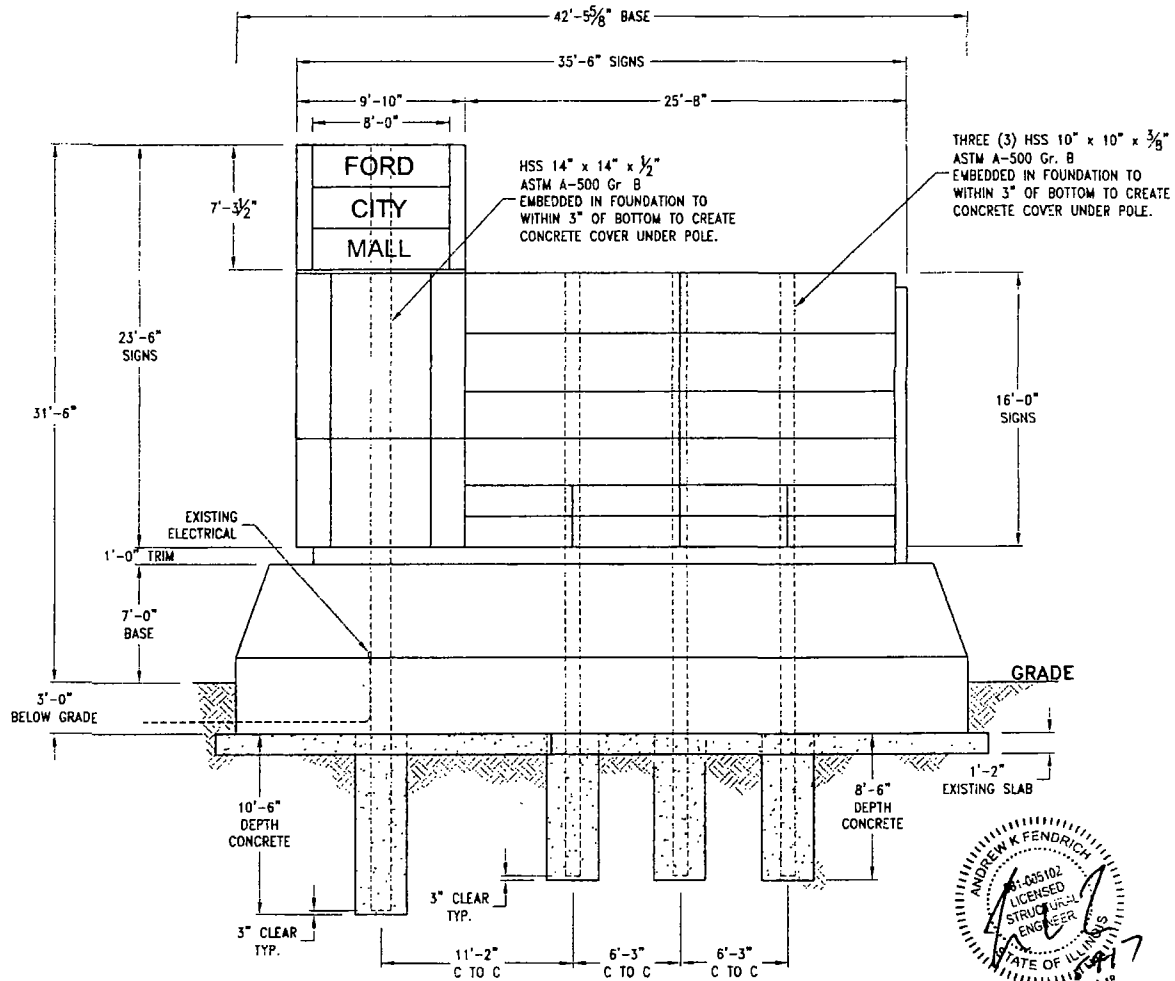
$$\text{Quantity of Concrete. (yds.}^3\text{)} \quad \text{CY} := \left(\frac{\pi \cdot b1^2 \cdot d1}{4 \cdot 27} \right) - \left[\frac{1.17^2 \cdot (d1 - 0.25)}{27} \right] \quad \text{CY} = 2.229$$

Note. Keep bottom of tube 3" from bottom of footing to create concrete cover for water exclusion.

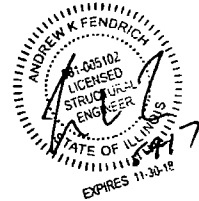


PLAN VIEW
QTY. CONCRETE: 2.3 CU. YDS.

PLAN VIEW
QTY. CONCRETE: 2.0 CU. YDS. EACH



ELEVATION VIEW



FOUNDATION NOTES:

1. Concrete shall have a minimum compressive strength of 3,000 PSI at 28 days.
2. Caisson footing designed using a soil bearing force of 250 PSF per foot Lateral.

DESIGN WIND LOAD: 30.0 PSF

Based on the Chicago Building Code 16 (13-52-310) (f) 1a for solid signs.

SITE:
Ford City Mall
7601 South Cicero Avenue
Chicago, Illinois 60652

REV	DATE	DESCRIPTION	APPROVED
A	08 May 17	RELEASED FOR PERMITTING	J. HOGAN
Robert-James & Associates, Inc.			
12255 West 187th Street, Mokena Illinois 60448-9737 phone: 708-479-8385 fax: 708-479-8395 email: rja37@comcast.net			
TITLE FOUR 31'-6" OAH DIRECT BURY POLES FOR REPLACEMENT ID & TENANT SIGNS			
DRAWN BY	J. GREENAN	DATE	08 May 17
CHECKED BY	J. HOGAN	DATE	08 May 17
SCALE	NONE	DRAWING NUMBER	1705040
SHEET	1 OF 1	REV.	A



— SIGN A

— SIGN B