

Date:	1/16/23	City, State:	Philadelphia, PA	SHEET:	1 OF 2
Client:	MaineLine Graphics LLC	Overall Height:	15'-0" OAH Max	Sean M. McFarland, P.E.	
Sign:	Hagert	Wind Speed	115 mph	McFarland Engineering	

Project Description	1924 E Hagerty St	Table of Contents	
ME Job:	59641 E01.1	Content:	Page
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		Connection Design.	1-2

ULTIMATE LOADS

Overall Size: 1'-6" x 8'-0"

Mounting Height: 15'-0" OAH Max

Mounting Style: Channel Letters with Spacers, Various Attachment Methods

Structural Variables and Code Loading Specifications

Sign Type:	Channel Letters / Wall Signs	Code:	2018 IBC
Existing Wall Material:	Various	Wind Speed:	115
Sign Weight Per Foot:	5	Wind Exposure:	C
Wind Loads Per ASCE 7-16			

Connection Design

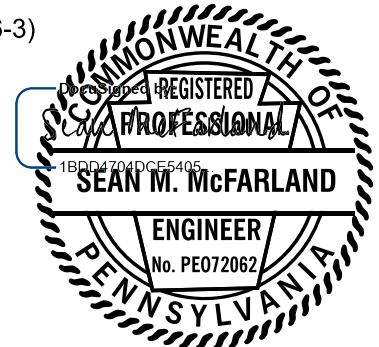
Using ASCE 7-16 (Simplified Procedure)

Topography:	Homogeneous	I =	1.15 (Table 6-1)
Exposure:	C	lambda =	1.21 (Figure 6-3, Exp. C, height = 15 ft)
Enclosure:	Enclosed		
Structure:	Components and Cladding	Zone =	5 (End-Wall - Worst Case)
Building:	Category II	Effective Wind Area =	10 Sq. Ft.
		Net Wind Pressure =	-24.1 (Figure 6-3)

Total Load Pnet = (lambda)*I*Pnet

Pnet (15) = -33.54 PSF

Sign Loads	Area	Pressure (Suction)	Tension Force	Shear Force
Letters (EA)	0.6 FT^2	-33.5 PSF	-22 LBF	3 LBF

**Tension Connection Design**

Connections	Tension / Total	Tension / Connection	3/8" Dia. Liberty Bolts	3/8" Dia. Thru Bolts
Letters (EA)				
	3	-7 LBF	250 LBF	
	3	-7 LBF		295 LBF



Applied by L&I: Shakir Cohen

Date:	1/16/23	City, State:	Philadelphia, PA	SHEET:	2 OF 2
Client:	MaineLine Graphics LLC	Overall Height:	15'-0" OAH Max	Sean M. McFarland, P.E.	
Sign:	Hagert	Wind Speed	115 mph	McFarland Engineering	

1924 E Hagerty St

ME Job: 59641 E01.1

Shear
Connection Design

Connections Total	Shear / Connection	3/8" Dia. Liberty Bolts	3/8" Dia. Thru Bolts
Letters (EA)			
3	1 LBF	175 LBF	
3	1 LBF		295 LBF

Combined Connector
(% of Capacity)

Letters (EA)		Tension %	Shear %	Total Capacity %	
3	Liberty Bolts	-2.9%	0.6%	3.0%	OK
3	Thru Bolts	-2.5%	0.4%	2.5%	OK

Liberty Bolts into Solid Wall
Thru Bolts Require UNISTRUT Backers

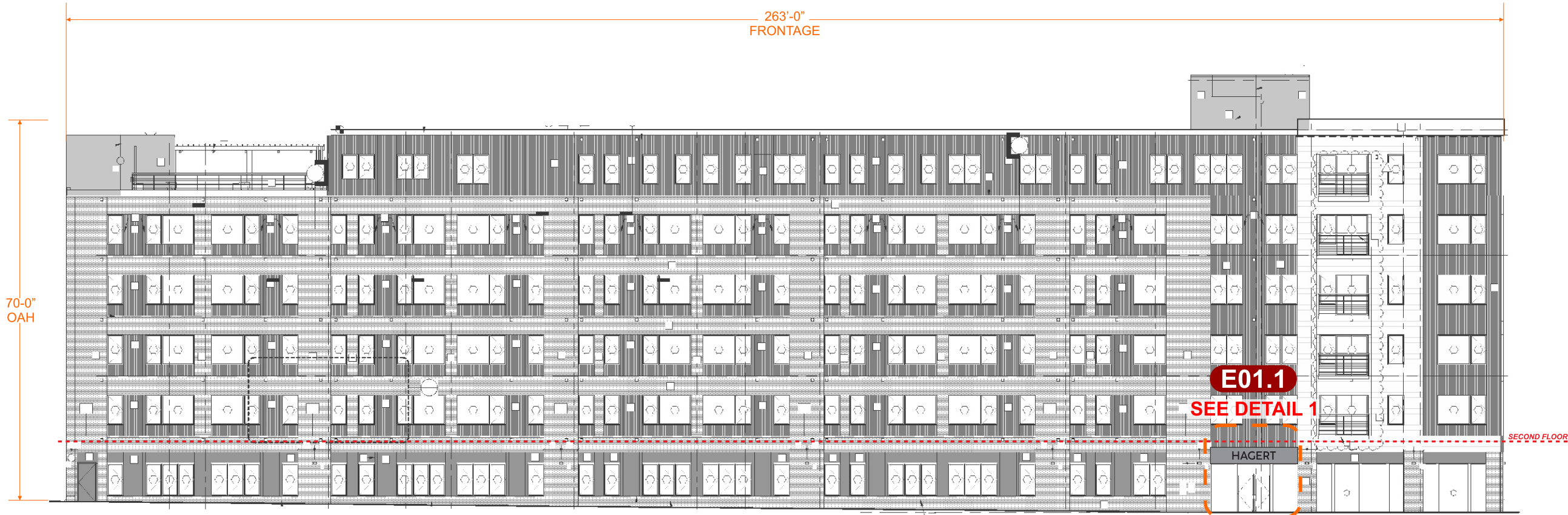
Connection Specifications

Attach Channel Letters to Wall with Evenly Spaced Connectors. Spacers are Required. See Drawings for Complete Fabrication Specifications. Use UNISTRUT Backers for Thru Wall Connectors. Don't Overtighten Connectors.

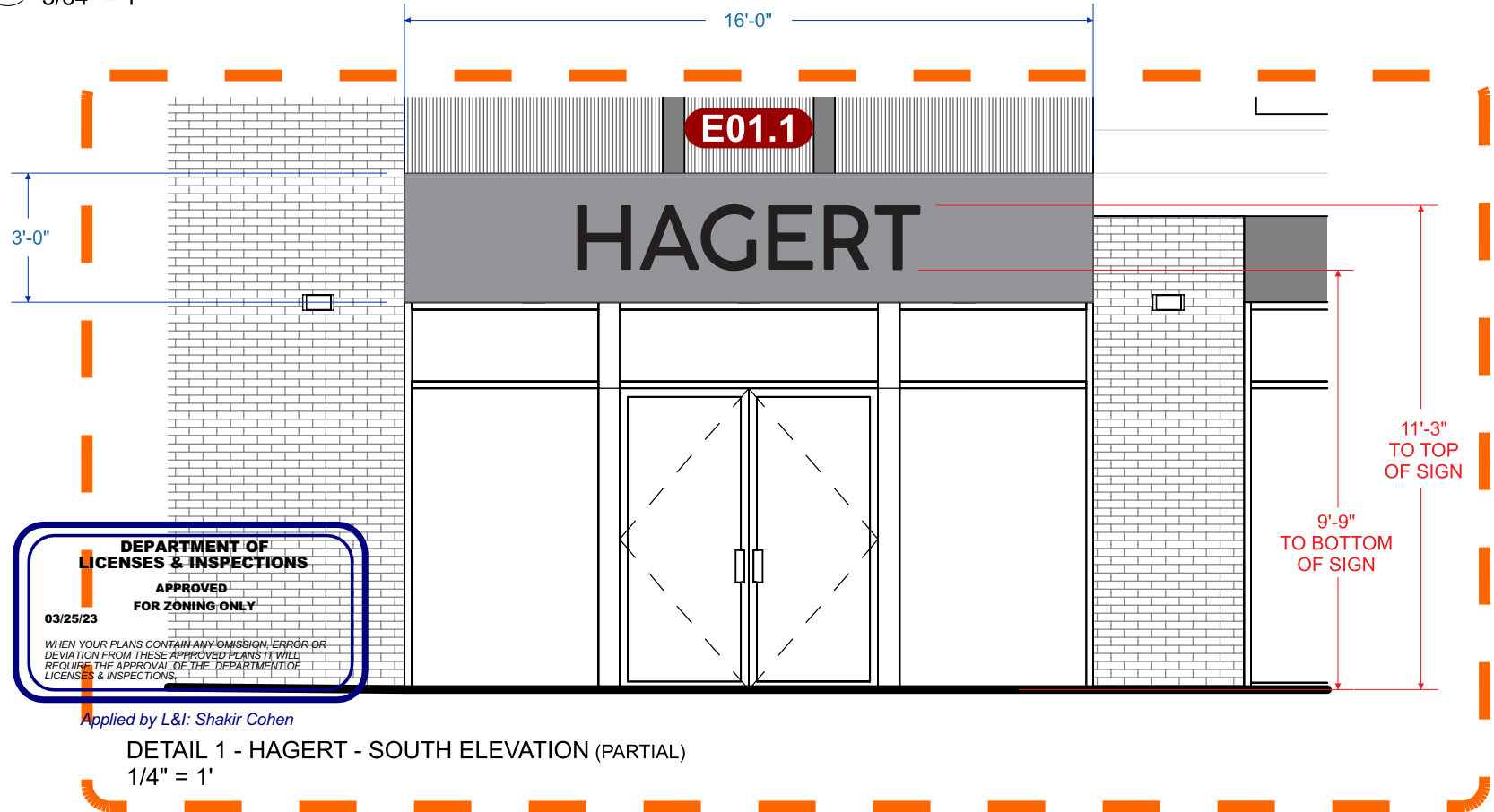


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ME #: 59641

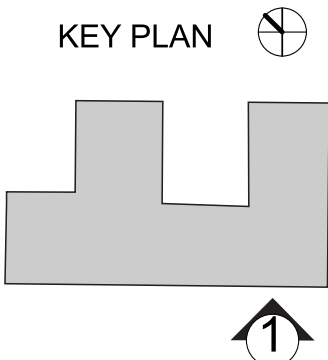


1 HAGERT - SOUTH ELEVATION
3/64" = 1'



Applied by L&I: Shakir Cohen

DETAIL 1 - HAGERT - SOUTH ELEVATION (PARTIAL)
1/4" = 1'



Scale
3/64" = 1'

Sign Code **E01.1**
Hagert - North Elevation

McFarland Engineering

183 Edgewater Ct
Mocksville, NC 27028

Structural Sign Design
&
Engineering Services

Ph: (281) 813-7439
Email: sean@signstructures.com
Web: www.signstructures.com

HAGERT

Address: 1924 E HAGERTY ST
City/State: PHILADELPHIA, PA

Client: MAINLINE GRAPHICS LLC

ENGINEERING OF
ATTACHMENT TO WALL ONLY.
NO CABINET ENGINEERING
OR EVALUATION OF AS
BUILT WALL CONDITIONS
PROVIDED OR IMPLIED.

Initial Drawing: (59641) DS

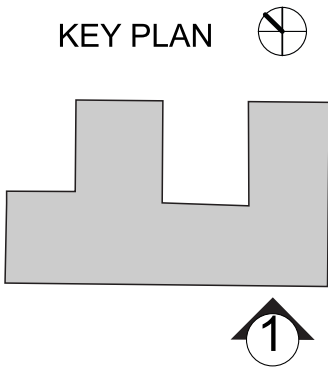
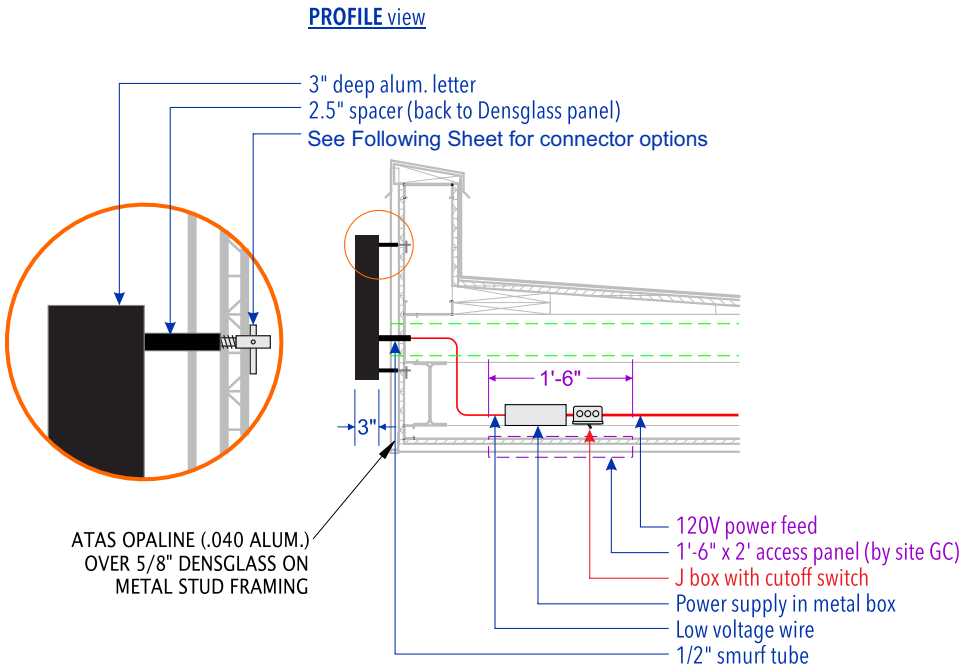
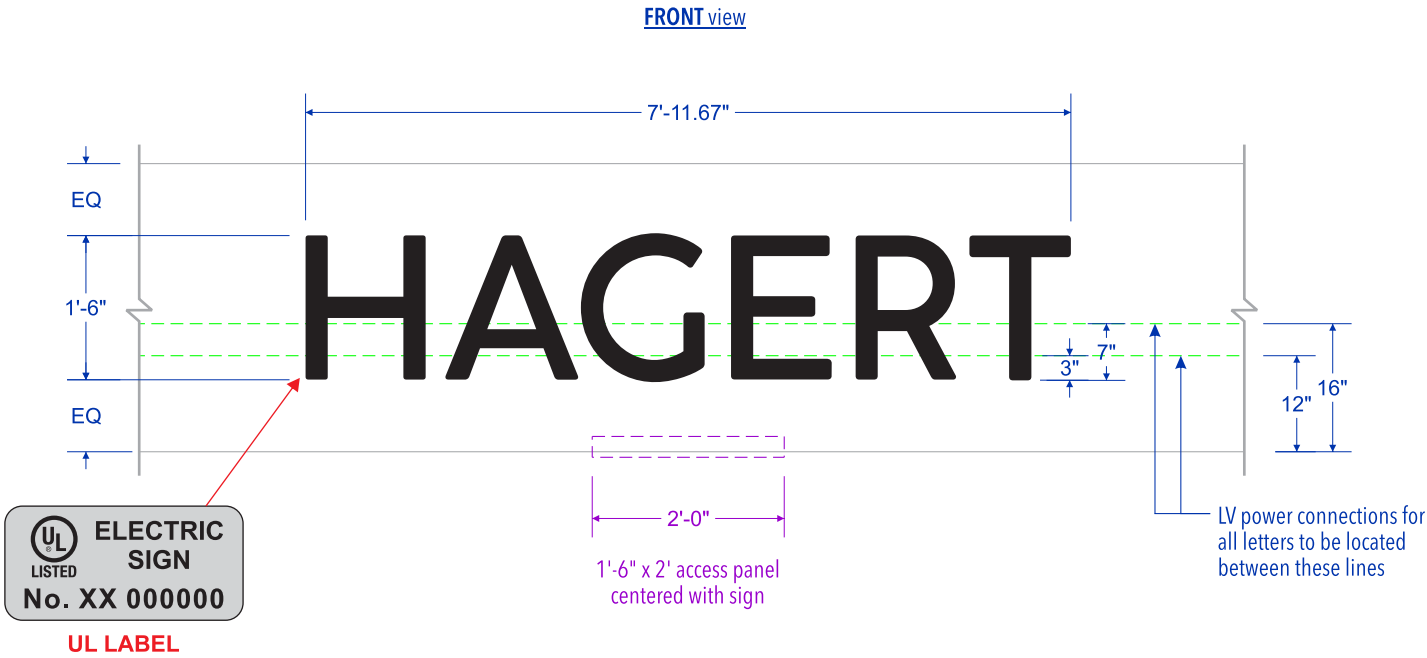
NC Firm Registration: F-1136
Pennsylvania License Number: PE072062
Pennsylvania Expiration Date: 9/30/2023

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COMMONWEALTH OF
PENNSYLVANIA
REGISTERED
PROFESSIONAL
ENGINEER
No. PE072062
SEAN M. MCFARLAND

Date: 1-16-2023
Sheet #: 1 of 3

ME #: 59641



COLORS & FINISHES

● Matte black

colors shown are representation only

Dimensional letters
3" deep fabricated aluminum

DEPARTMENT OF LICENSES & INSPECTIONS

APPROVED FOR ZONING ONLY

03/25/23

WHEN YOUR PLANS CONTAIN ANY DIMENSIONS IN PARENTHESIS, DEVIATION FROM THESE APPROVED PLANS IT WILL REQUIRE THE APPROVAL OF THE DEPARTMENT OF LICENSES & INSPECTIONS.

Power requirements
120V, 20 amp dedicated circuit

INSTALLATION

Mount method
Letters mount with spacers and liberty bolts or Thru Bolts

Low voltage wires run from each letter to accessible remote power supply in canopy

Approximate weight of letters:
less than 20 lbs in total

Height	Width	Sq. Ft.
1'-6"	8'-0"	12

Scale	Sign Code	Qty
1/2" = 1'	E01.1 Canopy ID - Hagert	1

McFarland Engineering

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HAGERT

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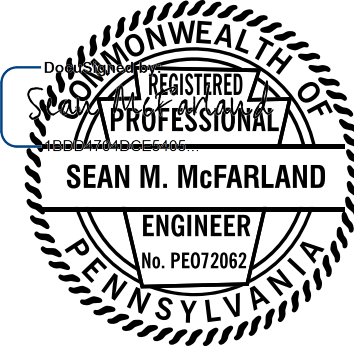
Client: MAINLINE GRAPHICS LLC

ENGINEERING OF ATTACHMENT TO WALL ONLY. NO CABINET ENGINEERING OR EVALUATION OF AS BUILT WALL CONDITIONS PROVIDED OR IMPLIED.

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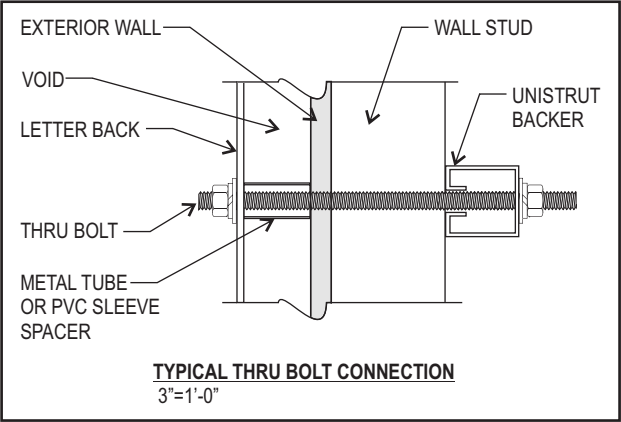
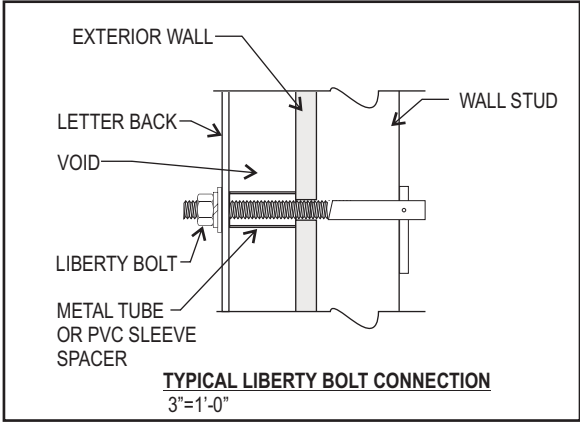
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Connection Specifications: Sign E01.1

Attach Channel Letters to Wall with Evenly Spaced Connectors. Spacers are Required. See Drawings for Complete Fabrication Specifications. Use UNISTRUT Backers for Thru Wall Connectors. Don't Overtighten Connectors.

CONNECTION QUANTITY	1	2
	3/8" LIBERTY BOLT	3/8" THRU BOLTS
LETTERS (EA)	3	3

Liberty Bolts into Solid Wall
Thru Bolts Requires Unistrut Backers



Applied by L&I: Shakir Cohen



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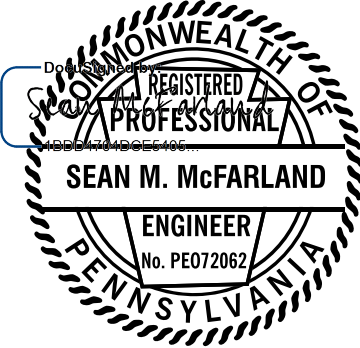
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Date: 1-16-2023

Sheet #: 3 of 3



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LICENSES & INSPECTIONS**

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FOR ZONING ONLY**

03/25/23

WHEN YOUR PLANS CONTAIN ANY OMISSION, ERROR OR
DEVIATION FROM THESE APPROVED PLANS IT WILL
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LICENSES & INSPECTIONS.

Applied by L&I: Shakir Cohen

Zoning Permit

Permit Number ZP-2023-003230

LOCATION OF WORK 1920 E HAGERT ST, Philadelphia, PA 19125-1209 BOSTON STREET ENTRANCE	PERMIT FEE \$232.00	DATE ISSUED 3/27/2023
	ZBA CALENDAR	ZBA DECISION DATE
	ZONING DISTRICTS IRMX	

PERMIT HOLDER YORK PARTNERS OZ LP	1920 E HAGERT ST PHILADELPHIA, PA 19125-
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OWNER CONTACT 1 ANTHONY RINALDI	359 SPRINGFIELD AVE., SUMMIT, NJ 078911
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OWNER CONTACT 2	
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TYPE OF WORK Signs (Accessory / Non-Accessory)

APPROVED DEVELOPMENT FOR THE ERECTION OF A STATICALLY ILLUMINATED MARQUEE (CANOPY) SIGN. SIZE AND LOCATION AS SHOWN IN PLAN.

APPROVED USE(S) Residential - Household Living - Multi-Family
--

THIS PERMIT IS SUBJECT TO THE FOLLOWING PROVISIO(S) AS ESTABLISHED BY THE ZONING BOARD OF ADJUSTMENT (ZBA)
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CONDITIONS AND LIMITATIONS:

- Permits, including Zoning Permits **not** involving development, shall expire if the authorized work or Use is not commenced within, or if work is suspended or abandoned for period of, **six (6) months from the date of issuance** with the following exceptions:
 - 30-days or 10-days** for Permits related to Unsafe or Imminently Dangerous properties respectively.
 - 3-years** from issuance or date of decision by ZBA for Zoning Permits involving development.
 - 60-days** for Plumbing, Electrical or Fire Suppression Rough-In Approvals.
 - Any Permit issued for construction or demolition is valid for no more than **five (5) years**.
- All provisions of the Philadelphia Code must be complied with, whether specified herein or not. This permit does NOT constitute approval of any Violation of such Code.
- The issuance of this CO/permit does not affirm that the subject property is federally compliant with the Americans with Disabilities Act. Owner remains responsible for ensuring property complies with all local, state and federal requirements.

Zoning Permit

Permit Number ZP-2023-003230

ADDITIONAL LOCATION(S)

See front side for primary parcel associated with this permit

PARCEL

1920 E HAGERT ST, Philadelphia, PA 19125-1209

ADDITIONAL USE DETAILS

See front side for specific use(s) associated with this permit

EXISTING AS PREVIOUSLY APPROVED.

This permit is subject to the following specific conditions.

CONDITIONS

This Zoning Permit (ZP) shall expire if construction or operation pursuant to the permit or approval has not begun within three years after the date the permit or approval was granted.

Changes of use shall be valid for a period of six months unless an application for a Certificate of Occupancy is submitted for that use within such period.

See § 14-303 of the Philadelphia Zoning Code for more information.



Tax Exemption(Abatement): Information and applications for Real Estate Tax Abatement for new construction and improvements available from the Office of Property Assessment www.phila.gov/opa, 215-686-4334, 601 Walnut St., 300W, Phila, PA 19106. Applications for new construction and commercial improvements due within 60 days of permit issuance. Residential rehab and builder/developer applications due by Dec 31 of year of permit issuance.