

City of Chicago



Or2014-6

Office of the City Clerk Document Tracking Sheet

Meeting Date:

1/15/2014

Sponsor(s):

Waguespack (32)

Type:

Order

Title:

Issuance of permits for sign(s)/signboard(s) at 1030 W North

Ave - North Ave elevation

Committee(s) Assignment:

Committee on Zoning, Landmarks and Building Standards

(signs)

ORDERED, That the Commissioner of Buildings is hereby directed to	
issue a sign permit to: (Contractor's name and address)	
Landmark Sign Group	
7424 Industrial Ave.	
Chesterton, IN 46304	
· · · · · · · · · · · · · · · · · · ·	
for the erection of a sign/signboard over 24 feet in height and/or over	
100 square feet (in area of one face) at: (Business NAME & ADDRESS)	/
Life Storage - Permit # 100520212	(North)
1030 W. North Ave.	MUE.
Chicago IL 60642	
Dimensions: length 10' height 22'	
height above grade/roof to top of sign $\frac{40}{}$	
TOTAL SQUARE FOOT AREA	

Such sign(s) shall comply with all applicable provisions of TITLE 17 of the Chicago Zoning Ordinance and all other applicable provisions of the Municipal Code of the City of Chicago governing the construction and maintenance of outdoor signs, signboards and structures.

Alderman, Ward

ROBERT-JAMES & ASSOCIATES, Inc.

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

File: LandmrkSgn039c.mcd

Site: Life Storage

1030 West North Avenue

Chicago, Illinois

Sign Type: 22'-0" x 10'-0" two piece single face sign for installation on 18" thick brick wall using thru bolts

and back-up plates. The upper ID section is 10'-0" x 10" x 12" deep with a 12'-0" x 10'-0" lower

multi tenant section that is 8" deep. Drawing No. 1311126 rev. A

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

Design Snow Load: (PSF) SL := 25.0 Based on the Chicago Building Code 16 (13-52-280) (a) for flat roofs.

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

Mounting Bolts: ASTM A-307 Fu = 60.0 ksi.; Ft = 20.00 ksi.; Fv = 10.00 ksi.

Design Loads for the Upper ID Section:

Dead Load:

Based on 4.5 lbs. per Square Foot : $ShrUprDL := (10.0 \cdot 10.0) \cdot 4.5$ ShrUprDL = 450 lbs.

Wind Load:

Suction: $ShrUprWL := (10.0 \cdot 10.0) \cdot WL$ ShrUprWL = 3000 lbs.

Snow Load:

All Exposed Surfaces: ShrUprSL := $\left[10.0 \cdot \left(\frac{12.0}{12}\right)\right]$ ·SL ShrUprSL = 250 lbs.

Combined Shear:

Summation: (lbs.) ShrUprSgn := $\sqrt{\left[(ShrUprDL + ShrUprWL)^2 + (ShrUprSL + ShrUprWL)^2 \right]}$ ShrUprSgn = 4739.726

Design of Mounting Bolts for the Upper ID Section:

Mounting Bolt Diameter: (in.) MntBltDia := 0.75

Stress Area: (in.2) $MntBltArea := \frac{\pi \cdot MntBltDia^2}{4}$ MntBltArea = 0.442 i Based on nominal diameter per AISC 4-3)

Allowable Tension: (lbs.) AllwTen := 20000·MntBltArea AllwTen = 8836

Allowable Shear: (lbs.) AllwShr:= 10000·MntBltArea AllwShr = 4418

Number of Mounting Bolts: NoBlts := 8

Shear per Mounting Bolt : (lbs.) ShrMntBlt := $\frac{\text{ShrOploght}}{\text{NoBlts}}$ ShrMntBlt = 592.466

Tension Load per Mounting Bolt : (lbs.)
$$TenMntBlt := \frac{ShrUprWL}{NoBlts}$$
 $TenMntBlt = 375$

Note: Use 3/4" diameter ASTM A-307 all thread rod, nuts and washers with 1/4" thick x 4" x 4" steel plate washers on the inside of the building.

Design Loads for the Lower Tenant Section:

Dead Load:

Based on 4.5 lbs. per Square Foot : $ShrLwrDL := (12.0 \cdot 10.0) \cdot 4.5$ ShrLwrDL = 540 lbs.

Wind Load:

Suction: $ShrLwrWL := (12.0 \cdot 10.0) \cdot WL$ ShrLwrWL = 3600 lbs.

Combined Shear:

Summation: (lbs.) ShrLwrSgn :=
$$\sqrt{\left[(ShrLwrDL + ShrLwrWL)^2 + (ShrLwrWL)^2 \right]}$$

ShrLwrSgn = 5486.31

Design of Mounting Bolts for the Lower Tenant Section:

Mounting Bolt Diameter: (in.) MntBltDia := 0.75

Allowable Tension: (lbs.) AllwTen := 20000·MntBltArea AllwTen = 8836

Allowable Shear: (lbs.) AllwShr := 10000·MntBltArea AllwShr = 4418

Number of Mounting Bolts: NoBlts:= 12

Shear per Mounting Bolt : (lbs.) ShrMntBlt :=
$$\frac{ShrLwrSgn}{NoBlts}$$
 ShrMntBlt = 457.193

Tension Load per Mounting Bolt : (lbs.)
$$TenMntBlt := \frac{ShrLwrWL}{NoBlts}$$
 $TenMntBlt = 300$

Note: Use 3/4" diameter ASTM A-307 all thread rod, nuts and washers with 1/4" thick x 4" x 4" steel plate washers on the inside of the building.

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Sign Permit Application

APPROVAL NUMBER	APPLICATION NUMBER	ANNUAL FEE	WORK CODE		DRAWINGS YES ATTACHED NO			
DATE OF APPLICATION	12/05/2013		TYPE OF SIGN	FLAT OF	RBOX			
ADDRESS OF SIGN 1030 W NORTH AVE, 60642-			LENGTH	ғг. 10	л». О	некант	гт. 22	IN.
BUILDING	ORIGINAL PERMIT NUMBER		AREA	sq. ft. 220		WEIGHT		LRS. 1,000
TYPE OF PERMIT NEW CONSTRUCTION (SIGN)			SIGN HEIGHT ABOVE GRADE/ROOF 40					
PAYER OF ANNUAL INSPECTION LIFESTORAGE, .		s	SHAPE OF SIGN REGULAR					
1030 W NORTH AVE CHICAGO, IL 60642 (312)397-0001			SIGN WILL READ LIFESTORAGE & THREE TENANT PANELS					
SIGN MANUFACTURER LANDMARK SIGN			NO. OF LAMPS TOTAL WAITAGE 1200					
ADDRESS WHERE SIGN CAN BE SEEN	PRIOR TO ERECTION		TYPE OF LAMP	FLUORES	SCENT			
			NO. OF BALLAST/TRANSFORMERS INPUT OF TRANSF			ANSFURMERS		
TICKET NUMBER REINSPECTION CONTROL NUMBER			· ··- · · ·	3		120		
TYPE OF SUPPORT FOR SIGN BUILDING			CONTRACTOR WILL INSTALL N FEEDERS CUSTOMER LEADS					
SIGN BOARD SUPPORT MEMBERS STEEL TYPE OF SWITCH SPECIAL								
ANNUAL FEE	700.00		OCATION OF SWITCH	OUTSID	E SIGN			
1017 B FEE		# TOP ZODING III	SIGN LOCATION NORTH AVE. ELEVATION: ILLUMINATED WALL SIGN -					
TOTAL FEE	700.00		"LIFESTORAGE" & (3) TENANT PANELS.					
AMOUNT PAID BALANCE DUE	200.00 Check	# for DCAP						
The undersigned certify that the statements in this anolication are true and correct and that all work done under the proposed nermit will conform to the requirements of the Chicago Municipal Code								

	REG. NO.	E94065	BUND. NO.	REG. NO.	N90730
ELECT CONTR VIP TECH ELECTRIC, INC.		ELECTR	SIGN ERECTOR LANDMARK OUTD'R AI	DVERTIS'	SIGNE
ADDRESS			ADDRESS		
10225 W. PACIFIC			7424 INDUSTRIAL AVE		
FRANKLIN PARK, IL 60131-			CHESTERTON XXX IN, 46304		
SUPERVISOR SIGNATURE			SIGNATURE	· · · · · · · · · · · · · · · · · · ·	

The permit issued on this application will authorize only signs here applied for. If other signs are to be erected they must be covered by additional permits

City of Chicago Rahm Emanuel, Mayor



Department of Buildings Michael Merchant, Commissioner

TYPE OF BUSINESS	SIGN BOND REQUIRED? YES	
COMMERCIAL Other: SELF STORAGE Name: LIFESTORAGE	COUNCIL ORDER REQUIRED X YES	
LIC#:	IS SPECIAL PERMISSION REQUIRED FROM CHIEF	EI ECTRICAI
Renewal Date: 12/15/2014	YES	ELECTRICAL
Projects Over: Y Private Property		
N Public Way Grant Permit #:	IF YES, ATTACH LETTER OF REQUEST	
X Planned Development/Manufacturing PMD/PD#: 844 Zoning District: OTHER Other: PD	TIME STAMP	
TYPE OF SIGN: ADVERTISING X ILLUMINATE MOVEABLE		
X BUSINESS FLASHING	1	
TOTAL STREET FRONTAGE OF LOT (IN FEET) 518		
TOTAL AREA OF NEW SIGN (SQ.FT.) 220	_	
TOTAL AREA OF ALL SIGNS ON LOT (SQ.FT.) 970		
HEIGHT OF SIGN ABOVE GRADE (TO TOP) 62ft 0in		
DISTANCE OF CURB LINE OUTER EDGE (ft) 12	SIGN CLERK	APPROVED FOR PERMIT
DISTANCE OF STRUCTURE INNER EDGE (ft) 12		
DISTANCE FROM (ft):	REMARKS	
A. PUBLIC PARK (OVER 10 ACRES) 1,000		
B. EXPRESSWAY (IF LESS THAN 1,000 FT.) 1,000		
C. RESIDENCE DISTRICT (ADVERTISING SIGNS ONLY) 1,000		
IF REPLACEMENT SIGN OR CHANGE OF FACE, WHAT DOES THE EXISTING SIGN READ?		
Original Payee:		
Landmark Hold: Status:		
ZONING (OFFICE USE ONLY)	•	



