

APPLICATION FOR CERTIFICATE  
CITY OF BUFFALO PRESERVATION BOARD  
901 CITY HALL, BUFFALO, NY 14202  
(716) 851-9675 chawley@city-buffalo.com

For City Use Only  
Permit # \_\_\_\_\_  
Designation: \_\_\_\_\_  
Blue Form:  Yes  No

Property Address: 306 MAIN ST. Zip Code: 14202 Date: 11-8-17  
Applicant: St. Paul's Cathedral (NASSIGN) Phone: 716-876-7599  
Email Address: PATRADA@NASSIGN.COM  
Owner (If Different from Applicant): St. Paul's - Episcopal - Cathedral -  
Owner Address: 306 MAIN ST. Estimated Project Cost: \$ 25,000<sup>00</sup>  
Is this an application for a Demolition of a Landmark or Structure in a Historic District?  Yes (\$500 application fee)  
Is the Property Owner-Occupied?  Yes (No application fee)  No (\$26.25 fee under \$10K, \$57.75 fee over \$10K)  
Is the owner seeking, or has sought, the Historic Tax Credit?  Yes  No  Request more information

Submission Requirements

- Materials must be submitted at least 8 days prior to the following Preservation Board Meeting. The Preservation Board meets on alternating Thursdays at 3pm in Room 901 City Hall.
- Applications for demolitions require submission 18 days prior to the Preservation Board Meeting.
- Please submit 12 copies of all application materials (unless the application is determined by staff to be eligible for a Certificate of No Effect, in which case only one copy is required).

Please include the information requested below, based on the type of project

Windows/Doors/Siding

- Written description of proposed work, including details on size, type, material, and color of existing windows/doors/siding and the proposed new windows/doors/siding, if applicable
- "Cut Sheet" or specification sheet for proposed new windows, doors, siding, if applicable.
- Color photographs (printed or digital) showing the front of the property and the area where the windows/doors/siding will be installed.

Roofing

- Written description of proposed work, including type, material and color of the existing roof and the proposed new roof.
- Color photographs (printed or digital) showing at least two sides of the property, including a view of the existing roofing materials.
- Photograph, brochure or sample of proposed new roofing material.

Fences

- Written description of proposed work including size, type, material and color of existing and proposed new fence.
- Color photographs (printed or digital) showing the front of the property and the area(s) where the fence will be located.
- Site plan (drawn to scale) or survey showing where the proposed new fence will be located.
- Photograph, brochure or sample of proposed new fence.

Signs/Awnings

- Written description of proposed work, including size, type, material and color of proposed new sign/awning.
- Color photographs (printed or digital) showing the front of the property and the area where the sign/awning will be located.
- Sketch or drawing of proposed sign or awning, including size, type, material and color. It is helpful to provide a sketch that includes a drawing or photo of the building.
- For detached signs, site plan (drawn to scale), sketch or survey showing location of proposed sign.

Landscaping/Site Features

- Written description of proposed work.
- Color photographs (printed or digital) showing the front of the property and the area(s) where the landscaping will be located.
- Site plan (drawn to scale) or sketch showing location of proposed landscaping.
- Description, photos or sketches of proposed plants, trees or other landscaping elements such as benches, gazebos, decks or walkways.

New Construction/Additions/Porches/Decks

- Written description of proposed work.
- Color photographs (printed or digital) showing all four sides of the property, and the area(s) where the addition/new construction will be located.
- Site plan (drawn to scale) showing all new construction and its relationship to surrounding building(s).
- Plans and elevation drawings drawn to scale that show the new addition and its relationship to the existing building.
- Description, samples or brochures of proposed materials to be used on addition, including description of size, type, material and color.
- "Cut sheet" or specification sheet for proposed new materials; if applicable.

Demolition

- Written statement stating the reason for demolition and future plans for the building/site.
- Detailed color photographs (printed or digital) showing interior and exterior views.
- Other supporting documentation – an engineer's report detailing the condition of the structure is highly recommended.

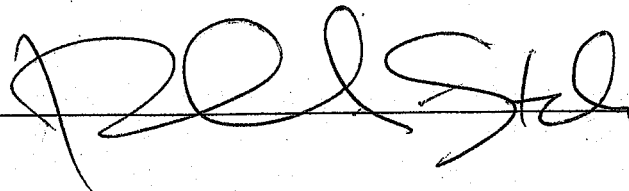
Other Work

- Written description of proposed work.
- Color photographs (printed or digital) showing at least two sides of the property.

Written description of Proposed Work (attach additional sheets if more space is needed)

REMOVE 1- EXISTING DOUBLE SIDED INTERNALLY  
ILLUMINATED SIGN. REPLACE WITH SAME SIZE  
DOUBLE SIDED EMC.  
SIGN NOT TO FLASH OR SCROLL.

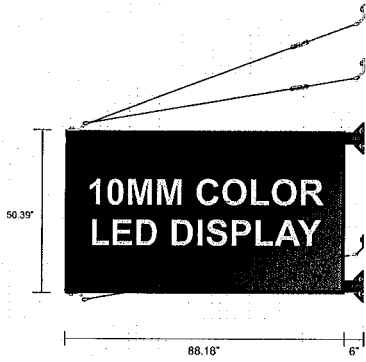
Signature of Applicant: \_\_\_\_\_



Date: \_\_\_\_\_

11-8-17

LAYOUT VIEW



- General Notes:
- 1.) Steel design and fabrication shall be in accordance with AISC, 14th edition.
  - 2.) Plate, angle channel, tee and wide flange shall be ASTM A36.
  - 3.) Square or rectangular tube steel shall be ASTM A500 Grade B.
  - 4.) Bolts for structural connections shall be ASTM A325.
  - 5.) Shall discrepancies exist between the plans and actual conditions, contact Murdoch Engineering for design review and/or revision.

- Steel Welding Notes:
- 1.) Welding shall be in accordance with AWS D1.1.
  - 2.) AWS certification required for all structural welders.
  - 3.) Minimum Weld to be equal or 1/32 less than thinnest structural section to be welded (unless otherwise noted).

BLADE CALCULATIONS

Wind Pressure = 24 psf @ 20.0 ft TOS, 115 mph ul., Nominal V=89 mph ul.  
 Risk Category = II

Wind Load = 736.07 lbs (Flux)

Check Connection at Building Wall

$((736.07 / (2 \cdot 7.35)) / (3 \cdot 87)) = 1381.61$  lbs. Tension

Tension Force Per/Fastener (Each Side)

$((1381.61) / (1 \cdot 2 \cdot 00 \text{ PL}) \cdot (3 \cdot 00 \text{ Bolts per/PL Each Side Vert.})) = \text{per/6} @ 230 \cdot 27$

Allowable tension:

$1381.61 = \text{Tension per/Side, } 586.4 = \text{Total Shear}$

Allowable Tension Per/Fastener =  $(359.0 \cdot L \text{ of } 1.00) = 359.06 / \text{Per/Side} = 2340.00$

Allowable Shear Per/Fastener =  $(645.9 \cdot 1.2) \cdot L \text{ of } 1.00 \text{ ft} = 7740.00$  Allowable

$986.37 = \text{Actual Shear, } 7740.00 = \text{Allowable Shear}$  - OK

Tension =  $1382$  lbs. <  $2340.00$  Allowable - OK

Actual Shear per/Conn. =  $98.20 < 645$  lbs. Allowable - OK

Check Section Modulus

$((736.07) / (7.35 \cdot 5)) = 3.68 \cdot 12 \text{ in } (J) 1000 = 16.23 \text{ Kip.in.}$

$(6 \cdot \text{pin. } 16.23) / (99.9 \text{ for } 81) = 0.487 \text{ Min. Section Modulus Req.}$

AISC 318 Steel Tube = 3.100 Section Modulus

Min. Sec. Mod. Req. =  $0.407 < 3.100$  Allowable Sec. Mod. - OK

Analysis:

Applied Load  $1.4 \cdot \text{Flux} = 2.334$  Allowable Load =  $1.0 \cdot \text{Flux}$  if

Tieback fastener Width = 48.00 in. Min. / 2" Dia. studs and Min. Thk. = 0.500 / Bolt Spacing = 45.00 in.

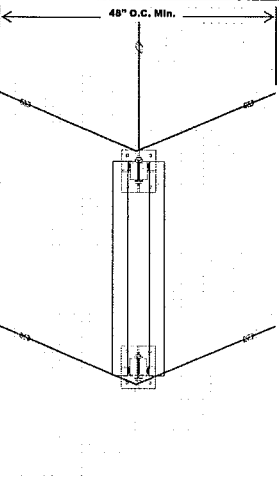
INSTALL: (2) A325 3/8" Steel Tube Welded to 0.432 Thk. Min. Steel Plate

INSTALL: 3" HAS HILTI ROD w/HY-70 Adh. w/Tube Into Brick over CMU

8 Min. Spacing @ 48.000 Horizontal, Minimum Embedment = 2" into CMU Block Inches.

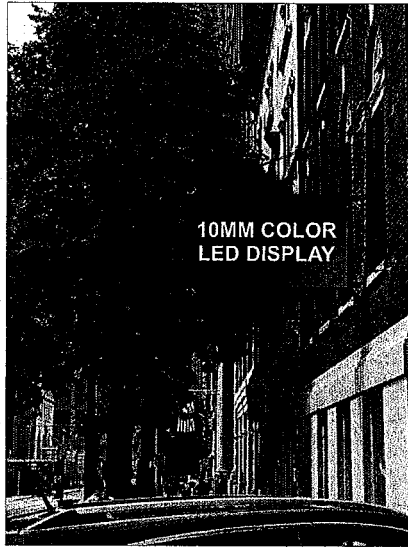
PROVIDE: 3" HAS HILTI ROD w/HY-70 Adh. w/Tube Into 2" Tube CMU Block Emb. Min. per/Tec-Guide

Stress Design = 0.85 < 1 = OK



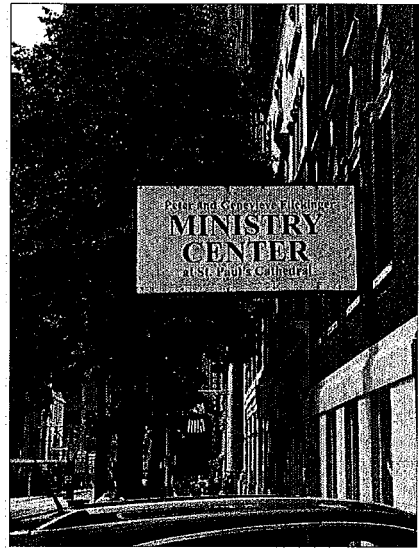
END VIEW

PROPOSED



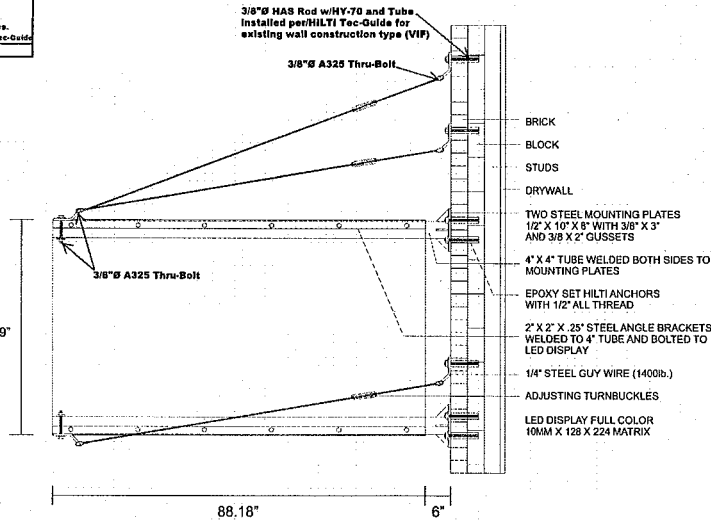
10MM COLOR LED DISPLAY

CURRENT CONDITIONS



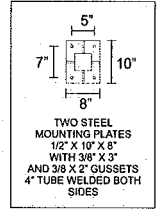
Engineers Notes:

- GUY fastener horizontal spacing to be 48" O.C. or greater assumed.
- Wall mounting tabs and sign front tab to be 3/16" Thk. Steel Minimum
- Wall mounting plates and tieback cables to be installed where shown with HILTI 3/8" HAS Rod into a 2" min. CMU Block emb. min. or per HILTI Tec-Guide for actual wall construction type with HY-70 Adhesive and tube type. VIF if CMU Block is Grout filled or hollow, install rods per/Tec-Guide into CMU Block and brick.



DETAIL VIEW

PLATES DETAIL



Designed Per IBC 2015 16th Edition  
 IBC Building Code 2015

**Snow Loads**

Ground Snow Load	Pg	50 psf
Snow Exposure Factor	C <sub>s</sub>	1.0
Snow Load Importance	I <sub>s</sub>	1.1
Thermal Factor	C <sub>t</sub>	1.0

**Wind Loads**

Ultimate Design Wind Speed	115 mph
Nominal Design Wind Speed	89.1 mph
Risk Cat	II
(3 Sec Peak Gust MPH)	
Wind Importance Factor	I <sub>w</sub> = 1
Wind Exposure	C
Gust Factor	G = 0.85

Exterior components designed in accordance with applicable provisions of the ASCE 7-10

**MURDOCH ENGINEERING**  
 200 WEST 10TH STREET  
 SUITE 200  
 HOVELL, NJ 07731  
 (973) 570-8215

9/19/2017  
 Jere Murdoch, PE  
 Professional Engineer  
 NY PE Lic. 9055682  
 Exp. 1/31/2020

**N.A.S. SIGN COMPANY**  
 716-876-6366  
 fax 876-7729  
 1628 Elmwood Avenue,  
 Buffalo, New York 14207

THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 600 OF THE NATIONAL ELECTRICAL CODES. THIS INCLUDES BONDING AND GROUNDING OF THE SIGN.

Change: Please modify the design as marked above and resend

Accepted: The above specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Please submit approvals to [art@nassigncompany.com](mailto:art@nassigncompany.com)

Accepted by (Print name): \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date of Acceptance: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Customer: St. Paul's Episcopal Cathedral	Job# 14528	Date: 09-14-2017	Sales Rep.: PS	"Property of N.A.S. SIGN COMPANY © 2017 all rights reserved"
Job Site: 128 Pearl St. Buffalo, NY 14202	Scale: 1:40	Sq ft: N/A	Designer: SL	