SECTION 10400 - EXTERIOR SIGNS

PART 1 - GENERAL

The pages that follow contain the Technical Specifications for the Xavier University Exterior Sign Standards. These Specifications should be used together with the Special Bid Provisions and the Sign Type Drawings to form a full description of the work required to fabricate and install the signs.

1.1 REFERENCE STANDARDS

A. The work shall conform to the codes and standards of the following agencies as further cited herein:


2. ADAAG: Americans with Disabilities Act Accessibility Guidelines

3. ANSI: American National Standards Institute


5. AWI: Architectural Woodworking Institute “Quality Standards”


7. PEI: Porcelain Enamel Institute, Inc., 1900 L Street NW, Washington, DC, 20036

8. UL: Underwriters Laboratories Inc. Publication Stock, 333 Pfingsten Road, Northbrook, IL 60062.

1.2 QUALITY ASSURANCE

A. The approved manufacturer shall have at least five years of experience in the type of work required; shall have a reputation for doing satisfactory work on time; and shall have recently successfully completed similar work.

B. The Drawings in this Bid Package are for design intent only. The Contractor is responsible for the proper engineering of all items. The internal structure, dimensions and specifications for all items shall be indicated in the Contractor’s shop drawings. Sign Contractor to engineer signs to proper level to withstand abuses of their environment.

C. The Contractor shall inform the Architect and Owner of any product and/or material deficiencies or incompatibilities that will prevent the signs from withstanding the conditions and abuses of their environment.
1.3 DELIVERY, STORAGE AND HANDLING
A. Deliver and store work under this Section in a manner to prevent cracking or stress of components and to prevent mechanical damage or damage by the elements.
B. Deliver work under this Section to Site in ample time to avoid delay in job progress and at such times as to permit proper coordination of the various parts.

1.4 GUARANTEES
A. Manufacturers shall provide their standard guarantees for work under this Section. However, such guarantees shall be in addition to and not in lieu of all other liabilities which manufacturers and Contractors may have by law or by other provisions of the Contract Documents.
B. Unless otherwise noted in these specifications the Contractor shall guarantee all work under this Contract for a period of not less than one year, following completion and approval of the installation, during which time the Contractor shall maintain and service all signs provided under this Contract.
C. Contractor shall provide to the Owner, in writing, specific product warranties for all paint finishes, adhesive vinyl graphics and all exterior digital print graphics including banners and campus maps, as indicated in the Drawings and Specifications below.

1.5 PATTERNS & MOLDS
A. Patterns and molds for all cast elements must be turned over to the Owner at the conclusion of the project. Patterns and molds must be cleaned and repaired if necessary to allow the Owner to produce additional castings for new or replacement shields and finials.

PART 2 - PRODUCTS

2.1 MATERIALS
A. Aluminum

1. Aluminum plate for all signs shall conform to ASTM-B209, Alloy 6061-T6 to thickness indicated on drawings.

2. Aluminum extrusions for all signs shall conform to ASTM-B221 Alloy 6061-T6 to dimensions and thickness indicated on drawings.

3. Aluminum shall be of best commercial quality and their various forms shall be straight and true. There shall be no scratches, scars, creases or buckles.

4. Cut aluminum letters shall be water jet cut from sheets of thickness as indicated on the drawings. Letters shall be cut with
sharp corners, flat faces, and accurate profiles. Sand sides to smooth finish.

5. Fabricated aluminum letterforms shall be of solid aluminum sheeting. Letterforms shall be rigid, self-supporting and structurally sound. Use brackets and supports as required. All exposed welds shall be filed smooth with all tool marks removed by fine abrasive grain air blasting or other approved method.

6. Cast aluminum shall be solid aluminum, no scrap permitted. Cast aluminum shall be free of all porosity, with sharp corners, flat and accurate profiles. All exposed welds shall be filed smooth with all tool marks removed by fine abrasive grain air blasting or other approved method. All burrs and rough spots shall be removed and faces shall be polished to a uniform high luster finish. Aluminum shall be mechanically sanded and degreased prior to receiving finish. All coatings shall be true to form, with no irregularities.

7. Patterns and molds for all cast elements must be turned over to the Owner at the conclusion of the project. Patterns and molds must be cleaned and repaired if necessary to allow the Owner to produce additional castings for new or replacement shields and finials.

8. Where aluminum is shop fabricated, all joints, returns and the like shall be properly joined together and welded edges shall be ground smooth to proper aluminum finish.

9. Aluminum in contact with dissimilar metals shall have bituminous or other protective coating to prevent electrolytic action.

B. Steel


2. All steel shall be galvanized in accordance with ASTM-A123.

C. Bronze/Brass/Copper

1. Bronze shall be solid bronze made of pre-alloyed ingots, free of all porosity with sharp corners and flat accurate profiles. All burrs and rough spots shall be removed and faces shall be polished to a uniform high lustre. Bronze shall be mechanically sanded and degreased prior to receiving finish. All coatings shall be true to form with no irregularities.

2. Cast bronze shall be solid bronze, cast of pre-alloyed ingots [no scrap metal permitted]. Alloy shall match Designer’s sample. Bronze shall be cast in sizes and thicknesses as shown on drawings. Sand sides to a smooth finish.
3. Plate bronze plaques shall be saw-cut from plate stock, in alloy to match Designer’s sample, of thickness and sizes as indicated on drawings. Sign parts shall be cut with sharp corners, flat faces and accurate profiles; belt polish faces to uniform finish as noted in drawings. Sand sides to a smooth finish.

4. Bronze letterforms / artwork shall be water jet cut from a sheet as indicated on drawings. Letters shall be saw cut with sharp corners, flat faces and accurate profiles. Sand sides to a smooth finish.

5. Fabricated bronze letterforms shall be solid bronze sheeting, Alloy to match Designers sample. Letterforms shall be rigid, self-supporting and structurally sound. Use brackets and supports as appropriate. All exposed welds shall be filed smooth with all tool marks removed by fine abrasive grain or air blasting or other approved method.

6. Finishes to be as follows:
   Oxidized - Medium

All bronze shall have clear acrylic lacquer finish, applied evenly, free from runs and imperfections.

D. Welding

1. Welding materials and practices shall conform to the requirements of the latest edition of American Welding Society code for steel and aluminum. Shop welders shall be certified by AWS. Welding rods shall be of a composition compatible to the base metal being welded. Welding rods for structural steel shall be an E70 category. Welding of aluminum shall be the MIG process, using ER-5356 wire.

2. Fabrication shall be accomplished using the highest standards of workmanship. All pieces shall be saw cut and carefully fit together. All visible connections shall be full welded and ground flush and smooth. All visible surfaces and connections shall be without visible grounding marks, surface differentiation or variation.

E. Hardware

1. Anchor bolts shall conform to ASTM-A576 with a minimum yield strength of 50,000 PSI. Hexagonal nuts and washers shall be furnished with each bolt.

2. High strength bolts (other than anchor bolts), nuts and washers shall conform to ASTM-A325.

3. Where mechanical fasteners and hardware are required, they shall be of adequate thickness, length and construction to properly secure the sign unit. Any visible portion of any mounting device shall be finished to match adjacent sign surface, unless otherwise specified.
4. Metal fasteners and hardware in contact with dissimilar metals shall have a protective coating or neoprene shields to prevent electrolytic action.

5. Lock cylinders shall be interchangeable core pin tumblers with nickel silver keys; all locks to be keyed alike. Locks to be flush with adjacent cabinetry as indicated in the Drawings. Pained finish to match color and finish of adjacent cabinetry. Provide five sets of keys.

F. Glass

1. Tempered glass shall be clear float glass conforming to Federal Specification DD-G-001403, Kind FT, Condition A, Type 1, Class as required, Quality 3. All tempered glass shall be stress tested in the factory prior to installation. Tempering shall be by Temp Glass Co., Perrysburg, Ohio, or approved equal.

G. Acrylic

1. Acrylic shall be cast acrylic sheet that is optically clear, has high impact resistance, weather resistance, formability and machine-ability.

2. Acrylic plastic shall be Plexiglas G with smooth finish, Rohm and Haas, Philadelphia, PA, or approved equal.

3. Saw-cut acrylic letters shall be cut from acrylic sheet, thickness as indicated on Drawings. Letters shall be saw-cut with sharp corners, flat faces and accurate profiles. Polish sides to a smooth finish.

H. Polycarbonate

1. Polycarbonate sheet shall be formed polycarbonate clear or with integral color.

2. Polycarbonate over laminate shall be .015 Lexan Film 8A35-112 with velvet finish first surface, polished finish second surface, GE Plastics.

I. Vinyl

1. Vinyl for computer-cut letters shall be Scotchcal as manufactured by 3M Co., St. Paul, MN, or approved equal.

2. Vinyl shall have a matte finish with a .003 to .006 film thickness and shall match colors as shown on Drawings.

3. Provide written warranties for all die-cut vinyl products.
J. Reflective Sheeting

1. Reflective Sheeting shall conform to Federal Highway Administration Standard FP-79 Table IV [engineer grade] as manufactured by 3M Co., St. Paul, MN, or approved equal.

2. Sheeting shall have pressure sensitive adhesive backing and shall be applied without necessity of additional adhesive coats on either the backing or application surface. Surface shall be degreased and etched according to manufacturer’s specification prior to application.

3. Provide written warranties for all die-cut vinyl products.

K. Large Format Digital Graphics

1. Imaging/Prepress
   a. The Contractor will be provided with final ‘camera ready’ artwork for all map and banner graphics by the Owner. Colors will be assigned Pantone color numbers and images will be high-resolution photographs.
   b. All editing of colors and images (i.e. contrast, color balance, etc...) must be approved by the Designer and the Owner. The Contractor shall make all adjustments and printer calibrations necessary to achieve accurate spot color matches and correct color balance and saturation values for photographic images.
   c. All artwork to be returned within two months of fabrication/installation completion. All artwork must be returned via tracked overnight mail.

2. Output
   a. Campus Maps
      1) Graphics shall be produced using a continuous ink-jet printing machine suitable for the printing of large-format, full-color images and text directly from a digital file, one step directly to substrate. The print resolution must be 720-dpi minimum. The ink-jet output device shall have a minimum width capacity of 63 inches with the capability of printing on the following substrates: vinyl (frontlit, backlit, adhesive), net (thin and thick), Tyvek, panaflex, silk, canvas, vinyl coated nylon (Vylon), and nylon.

      2) Inks and solvents shall be durable for outdoor use and provide a minimum of 2 years of colorfastness without the use of protective coatings or laminates. Colors shall be derived from four-process color CMYK pigments with a 6 million color combination range. Black shall be process black only.
b. Vinyl Banners

1) Graphics shall be produced using 3M Scotchprint 2000 imaging system directly from a digital file or approved equal. Image shall be output onto 8620 white, 2-mil Controltac pressure sensitive film for banners and 8640 white 4-mil Controltac pressure sensitive film for rigid surface mounting. Minimum output resolution shall be 400 dpi. Images on Controltac shall be sealed with 8910 or 8911 over laminating film.

2) For banners, the Scotchprint image will be applied to 3M Panaflex substrate. 2-sided banners will have a blackout layer between the banner faces to insure opacity.

3) Inks and solvents shall be durable for outdoor use and provide a minimum of 1.5 years colorfastness without the use of protective coatings or laminates.

4) Nylon Flags and Banners

5) Graphics shall be produced using a four-color process electrostatic plotter at 300dpi, output directly from a digital file, onto dialectric transfer print paper. Dialectric transfer print paper shall be heat transferred to a 14oz. indoor/outdoor, opaque, smooth two-sided receiver that is vinyl reinforced with 100% polyester blackout. The heat transferred electrostatic transfer print and vinyl banner receiver media are water separated for carrier sheet removal. The unfinished separated banner is then overlaminated with 1.5 mil matte over laminating film.

6) Inks and solvents shall be durable for outdoor use and provide a minimum of 2 years colorfastness without the use of protective coatings or laminates.

c. Photographic Durst Lambda Print

1) Graphics shall be full color continuous tone produced directly from a digital file using a Durst Lambda photographic printer onto archival Ilford-Cibachrome paper with a minimum colorfastness rating of 2 years without protective coatings.

2) Printer shall have a minimum width capacity of 50” with a minimum resolution of 720-dpi. Prints shall be laminated with a .015 Lexan film with a velvet finish on the first surface and polished finish on the second surface.

3. The Contractor shall provide the Owner with a warranty in writing guaranteeing a minimum of 2 years color fastness and 2 years product durability. There shall be no delamination, buckling, warping or deterioration during that time frame.
L. Banner Poles

1. Banner poles to be as manufactured by Pole-Tech, Inc., East Setauket, NY, 800-633-6733, or approved equal.

2. Banner bracket arms to be manufactured by Kalamazoo Banner Works, Kalamazoo, MI, 800-525-6424, or approved equal.

3. All load requirements to be verified by manufacturer. Requirements to include, but not be exclusive to: design load, snow load, wind load and uplift load, as required.

4. The Contractor shall provide documentation that pole assembly and bracket arms assembly meets all building codes, and shall provide complete description of pole system in terms of materials, dimension, i.e. pole diameter and taper, wall thickness and footing system.

M. Sign Mounting Brackets


2. Stainless steel strappings shall be “Band It” as distributed by Hinds & Coon Co., Boston, MA, or approved equal. Strapping shall be painted to match light pole.

N. Adhesives

1. Where adhesive mounting techniques are specified, the Contractor shall use adhesives specifically designed for compatibility with the base materials and the desired adhesive strength. All adhesives shall be tested on site. All adhesives shall be indicated in the shop drawings.

2. Surfaces on which sign is to be installed using adhesive shall be free of grease, oil, or any other residue.

3. Foam tape shall be 1/32” thick, high density open cell double coated polyurethane foam tape, Scotch Mount #4016 by 3M Co., St. Paul, MN, or approved equal.

4. VHB tape shall be double coated acrylic foam tape #4920 by 3M Co., St. Paul, MN, or approved equal.

5. Provide necessary amounts of clear silicone sealant or grout for use in pin mounting.

O. Electrical

1. All electrical items - light fixtures, lamps, wiring and appurtenances necessary for the signs shown in the drawings shall be provided and installed as part of this Contract. All specific electrical
equipment required by product codes or building codes, such as item grounds, disconnect switches, insulation etc. shall be shown and noted in the shop drawings.

2. The Contractor shall insure that the graphic area of each illuminated sign is illuminated evenly, with no hot spots, light leaks or drop-off of light intensity at the borders of the graphic area. The Contractor shall insure that there are no light leaks on the sign face or around the perimeter of the sign frame.

3. All electrical items shall bear an Underwriter's label.

4. All silk screening processes shall be approved by the Designer prior to fabrication.

P. Masking and Spraying

1. Graphic mask shall be assembled on sign panel or wall in a professional manner prior to spraying. No hand-cut masks shall be used.

2. Masking and spraying shall be done carefully so as not to leave bleeding or rough edges at painted surfaces. All edges and corners of the finished graphics shall be true and clean. Graphics with rounded positive or negative corners will not be accepted.

3. Spray guns used for artwork shall be airless type as approved. All graphic work shall receive at least two coats of paint.

Q. Sandblasting

1. All sandblasting and tinting to be executed by an artisan with experience showing the highest standards. Letterforms shall be sharp and clean with no imperfections. Protect adjoining and adjacent surfaces from damage with Homosote or other hard board. Clean up shall occur on same day as sandblasting.

2. Glass

   a. Sandblasting on glass shall be executed on tempered glass using a fine silver grit. Graphics on pre-cut friscut shall be sharp and clean and shall be bonded securely to glass prior to blasting. Stencil shall be removed with standard solvent and cleaned with water. Sandblasted area shall be clean and free of imperfections.

   b. Following blasting the graphics shall be sprayed with Transparent Gray Lithichrome Shadow cut 50% with lacquer thinner, Cleveland Lithochrome Co., Fort Scott, KS, or equal.

3. Stone

   a. Sandblasting on stone shall be executed with an abrasive that contains less than 1% silica at 80 - 120 lb. pressure. Graphics on pre-cut friscut shall be sharp and clean and shall be
bonded securely to stone prior to blasting. Following blasting any “pockets or notches” due to irregularities or aggregates in material shall be carefully filled and smoothed over prior to removal of mask. Stencil shall be removed with standard solvent and cleaned with water. Sandblasted area shall be clean and free of imperfections.

b. Following blasting the graphics shall be sprayed with Transparent Gray Lithichrome Shadow to match Designer’s Sample, Cleveland Lithochrome Co., Fort Scott, KS, or equal.

R. **Chiseled Stone**

1. Letters shall be hand cut or chiseled with pneumatic chisel into granite in typestyle as specified on Drawings with “vee” cut section.

2. All chiseling and tinting to be executed by an artisan with experience showing the highest standards. Letterforms shall be sharp and clean with no imperfections.

3. Letters to be tinted with Transparent Grey Lithichrome Shadow by Cleveland Lithochrome, Inc., Fort Scott, Kansas. Tint to be selected by Architect. Lithichrome to match Designer’s Sample, and applied with airbrush.

S. **Typeface**

1. All copy shall be in the typefaces shown in the graphic standards to match the letterforms shown in the Detail Drawings.

2. All types of graphics - engraved, photo-polymer, saw-cut, vinyl, silk screened, etc. shall be made with the Adobe fonts by Adobe Inc., Mountainview, CA, specified using a PC or Mac link to the final graphic output device.

T. **Typesetting**

1. All typeset messages shall be prepared on a Macintosh or IBM PC. Letterforms shall match the samples shown in the drawings.

2. Standard letter spacing and standard word spacing shall be approved by Designer for all fonts before final manufacture.

3. Typical type and symbol layout for each sign type is indicated on the Design Drawings. All type shall be placed according to the dimensions shown on the drawings. Should any design conflict occur in the fabrication of the signs; i.e., type not fitting, it shall be brought to the attention of the Designer.

U. **Windmaster Signs**

1. Moveable freestanding signs shall be the Windmaster sign by Marketing Displays International, Farmington Hills, MI.
2.2 FINISHES

A. Paints

1. Paints for metal signs shall be finished with acrylic polyurethane semi-gloss enamel as manufactured by Matthews Paint Co., Wheeling, Ill., or approved equal.

2. All surfaces shall be cleaned, primed and pre-treated according to manufacturer's specifications and noted in Shop Drawings as part of the finished surface work.

B. CONCRETE FOOTINGS

1. Site Preparation and Restoration

   a. Within existing concrete sidewalks the Contractor shall demolish an area of concrete sidewalk sufficient to accomplish required construction for concrete footings. Disturbance to existing conditions shall be held to the absolute minimum necessary to accomplish the work. Areas disturbed shall be restored and finished flush with sidewalk.

2. Materials and Construction


   b. Concrete shall have a minimum compressive strength of 3,000 psi at 28 days.

   c. Installation of Class D cement concrete including formwork, finishing, protection and curing of concrete shall conform to requirements of Section 901 of the "Standard Specifications".

   d. Reinforcing bars shall be deformed bars rolled from new billet steel conforming to ASTM-A615, Grade 60. Include tie wire and accessories as required.

   e. Grouting called for on the drawings shall be performed with Five Star Grout as manufactured by U.S. Grout Corporation or approved equal. The grout must show no shrinkage under ASTM C-827 and CRD-C-621, and must contain no expansive cements or metallic powers such as aluminum or iron filings. Preparation of surfaces, mixing, placing and curing of grout shall be in accordance with manufacturer's recommendations.
PART 3 - EXECUTION

3.1 PREPARATION AND INSPECTION

A. All surfaces to receive work shall be prepared and finished by the respective trades. The Sign Contractor shall notify the Designer if surfaces or openings are not satisfactory to receive this work. Commencement of work by Sign Contractor shall constitute acceptance of conditions and surfaces. Subsequent work not accepted by the Designer shall be replaced at no additional cost to the Owner.

B. Prior to installation of all sign types each type shall be verified in field as to meet field conditions. Sign Contractor shall notify Architect if corresponding room name and number signs do not meet field conditions.

C. All work shall be performed in accordance with a written schedule agreed on by Owner, Contractor, Designer and Sign Installer. In any case where work cannot be completed on schedule, the Contractor shall supply temporary signs at no additional expense to the Owner.

D. All work shall be subject to inspection and approval by the Designer in the shop or field at any reasonable time. Provide at least 72 hours notice for Designer’s inspection of complete fabricated signs before delivery.

3.2 WORKMANSHIP, PERFORMANCE

A. All work shall present clean, straight sharply defined lines, free from defects impairing strength or durability, and shall be performed in a shop where the grade of work is of a quality acceptable to the Designer. All work shall be installed plumb, straight, square, level and in proper elevation plane, location, and alignment with other work. All work shall be designed for adjustment to field variations, fitted with proper joints and intersections, and adequately anchored in place. All workmanship and finishes shall be of best quality in every particular, strictly in accordance with best practice. All work shall be complete in every detail. Finish work shall be subject to approval by the Designer.

3.3 INSTALLATION / APPLICATION / ERECTION

A. Members shall be shop-fabricated, and where practical, all work shall be delivered to the site completely assembled. All joints of such fabricated work shall be completely smooth without apparent marks showing throughout the finish. All work “broken down” shall be erected so that all parts fit accurately with hairline joints.

B. Unless otherwise shown on the Drawings, all members shall be continuous lengths without seams. Work shall be formed to profiles indicated on the Drawings.
C. Where material lengths require joints, all joints shall be flush. Similar materials at joints shall be either bonded or welded together, or shall be lap jointed to provide for expansion. All joints to be lightproof.

D. Protect adjacent or adjoining surfaces and work from damage during installation in this section.

E. Work shall be designed and anchored so that work will neither be distorted nor the fasteners overstressed from expansion and contraction of metal or other materials as applicable.

3.4 CLEANING AND PROTECTION

A. At completion, all work shall be checked over, re-adjusted, and left in first class condition. Signs shall be cleaned with non-abrasive cleaning agents without damage to sign surfaces.

B. Manufacturer shall provide Owner with information on cleaning and maintenance recommendations for all signs.

C. Names, stamps and decals of manufacturers, installers or maintainers of signs shall not be visible in the finish work.

3.5 PERMITS

A. Sign Contractor shall obtain all permits required by Local Authorities for installation of signs.

3.6 AS-BUILT DRAWINGS

A. Sign Contractor to provide as-built drawings for building engineer/management use.

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<td>3M Scotchcal, 220-20 Matte White</td>
<td></td>
</tr>
<tr>
<td>Medium Blue</td>
<td>to match Pantone 647c</td>
<td></td>
</tr>
<tr>
<td>Parking Blue</td>
<td>3M Scotchlite 280-76, Light Blue</td>
<td></td>
</tr>
<tr>
<td>Reflective White</td>
<td>3M Scotchlite 280-10, White</td>
<td></td>
</tr>
<tr>
<td>Red</td>
<td>3M Scotchlite 280-82, Ruby Red</td>
<td></td>
</tr>
<tr>
<td>Silver</td>
<td>Mattews Paint Company 30136, Brushed Aluminum</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>Mattews Paint Company 11477, Natural White</td>
<td></td>
</tr>
</tbody>
</table>

Note: All paint finishes for exterior signage are semi-gloss unless otherwise noted in the drawings.
Bembo Semibold

ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789

Standard Letterspacing - All Caps
Adobe Illustrator Optical Kerning, Track 50

ALUMNI CENTER    Main Campus

Bembo Regular

ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789

Standard Letterspacing - All Caps
Adobe Illustrator Optical Kerning, Track 100

MICHAEL J. CONATON
Frutiger Bold

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
0 1 2 3 4 5 6 7 8 9

Standard Letterspacing - All Caps
Adobe Illustrator Optical Kerning, Track 75

EVENT ONLY

Sycamore

Standard Letterspacing - Upper and Lower Case
Adobe Illustrator Optical Kerning, Track 25
Note:
Logotype shown has adjustments to improve legibility for signage applications—this logotype for use on signage only.

**Logotype - white or light background**

**Logotype - dark background**
Decorative Pattern
Note: for reference only - not for reproduction. Artwork to be provided by Designer on disk.

Arrow Orientation – Flush Left Sign Layouts
Align arrow with bottom left for flush left sign layouts

Arrow Orientation – Centered Sign Layouts
Align arrow with bottom center for centered sign layouts

Parking - Sign Panels
No Parking - All Conditions
No Smoking - All Conditions

Accessible - Sign Panels
Accessible - Entrance Doors
Parking Zone Arrow

Black outline does not print (typ.)
Shown below are standard setbacks for signs along campus roads. If field conditions do not allow for the setbacks indicated, obtain approval from Xavier University prior to installation.

**Double Posted Sign**
- Edge of road
- 3' - 0"
- Minimum

**Single Post Sign (Tavern Style)**
- Edge of road
- 2' - 0"
- 18" Min.

**Single Post Sign (Centered Post)**
- Edge of road
- 2' - 0"
- 18" Min.
Sign Type 101A - Hoff Pillars

Typestyle: Bembo Semibold
Color: Transparent Gray Lithichrome Shadow
Description: Lettering hand-carved into limestone, infilled with lithochrome, pin-mounted to existing pillar with adhesives as required.
**Sign Type 105A - Trailblazer, Post and Panel**

**Artwork:** Logotype to be provided.

**Colors:**
- Sign Post - Dark Gray
- Sign Panel - Dark Blue
- Text & Arrow - Reflective White
- Decorative Pattern - Medium blue

**Description:** Single sided aluminum sign panel and post, painted with masked and sprayed decorative pattern and reflective vinyl text.

**Criteria:**
- This sign is used for providing directions to the University and the Cintas Center along roadways leading to the campus from major highways and where a light pole or utility pole isn’t present.
- Signs should be located prior to an intersection, a distance as determined in the field.
- The Cintas Center message, when provided, should always be accompanied with the “Xavier University” message.
101A.2

**Sign Type 101A**
Trailblazer, Post and Panel

- **3” diameter aluminum post** painted Dark Gray. Provide Post Cap at top of post
- Threaded rod stud welded to bracket and fastened to post with acorn fastener. Fastener painted to match post
- Aluminum channel the entire length of panel, welded to back of panel and painted Dark Blue
- 1/8” aluminum sign panel mechanically fastened to post with required hardware. Back of panel painted Dark Blue

**Horizontal Section**
Half Size

- 1/8” thick aluminum post cap, weld and grind smooth, painted to match post
- 3” diameter aluminum post
- Grade
- Restore surface material to original condition. See Technical Specifications

**Post Cap, Base and Footing Detail**
1 1/2” = 1’ - 0”

- Gravel backfill
- Stainless Steel thru bolt
- Galvanized steel post sleeve with painted coating
- Reinforced Concrete footing as required
Sign Type 101A
Trailblazer, Post and Panel

Layout 1
Scale: 1 1/2" = 1' - 0"

Layout 2
Scale: 1" = 1' - 0"

Layout 3
Scale: 1" = 1' - 0"
Sign Type 105B - Trailblazer, Mounted to Existing Pole

Artwork: Logotype to be provided.

Colors: Sign Panel - Dark Blue
Text & Arrow - Reflective White
Decorative Pattern - Medium Blue

Description: Single sided aluminum sign panel, painted with masked and sprayed decorative pattern and reflective vinyl text. Mounted to existing pole.

Criteria: This sign is used for providing directions to the University and the Cintas Center along roadways leading to the campus from major highways: where a light pole or utility pole exists.

- Signs should be located prior to an intersection, a distance as determined in the field.
- The Cintas Center message, when provided, should always be accompanied with the "Xavier University" message.
**Sign Type 101B**

Trailblazer, Mounted to Existing Pole

**Horizontal Section**

- **Existing Round, square or octagonal Utility Pole**
- **3/4" Stainless Steel Strapping**
- **Stainless Steel bracket to match SignFix Bracket HPN177, two (2) per panel**
- **SS threaded bolt and washer ptd. to match sign panel**

**Half Size**

---

1/8" thk. Alum. sign panel
Sign Type 101B
Trailblazer, Mounted to Existing Pole

**Layout**

Scale: 1 1/2" = 1' - 0"

R = 1/4" typical
Sign Type 110 - Vehicular Directional, Double Post

Typestyle: Frutiger 65 Bold
Colors: Sign Posts and Finials - Dark Gray
       Sign Panel and Frame - Dark Blue
       Text & Arrows - Reflective White
       Decorative Pattern - Medium Blue

Description: Double sided aluminum sign panel and post, painted with masked and sprayed decorative pattern and reflective vinyl text.

Criteria: This sign is used for providing vehicular directions along campus roads and prior to the main campus entrance on Dana Avenue.

Signs are to be located on University property prior to an intersection, as determined in the field and positioned on the right side of the travel lane. This sign type is intended for single sided use, but can be adapted for double sided use if necessary.
Vehicular Directional, Double Post

**Horizontal Section**

Half Scale

- 1/8" thick aluminum sign panel
- 1" x 1" x 1/8" aluminum channel internal frame with cross bracing as required, mitered corners, weld and grind smooth
- 1" x 1 1/2" x 1/8" aluminum channel sign frame, mitered corners, weld and grind smooth
- Reveal: 1/8" x 1" aluminum, entire height of sign panel, continuous weld to post, painted to match post

**Vertical Section**

Half Scale

- Sign Frame: 1" x 1 1/2" x 1/8" aluminum channel, mitered corners, weld and grind smooth
Custom aluminum finial painted Dark Gray
Milled aluminum post cap
Headless set screw painted to match post
3" diameter aluminum post
Milled aluminum ring affixed to post sleeve
3 1/2" dia. aluminum post sleeve
Grade
Restore surface material to original condition. See Technical Specifications
1/2" anchor plate and gussets
ss j bolts
Reinforced concrete footing

Post Cap, Base and Footing Detail

1 1/2" = 1' - 0"
**Sign Type 110**
Vehicular Directional, Double Post

**Admission**
**Bellarmine Chapel**
**Cintas Center Parking**
**AB Cohen Center**

**Layout**
Scale: 1" = 1' - 0"
Sign Type 111
Vehicular Directional, Single Post

Typestyle: Frutiger 65 Bold
Colors: Sign Post and Finial - Dark Gray
        Sign Panel and Frame - Dark Blue
        Text & Arrow - Reflective White
        Decorative Pattern - Medium Blue

Description: Double sided aluminum sign panel and post, painted with masked and sprayed decorative pattern and reflective vinyl text.

Criteria: This sign is used for providing vehicular directions along campus roads, particularly in the areas where landscaping, parked cars, and other obstructions along the edge of the road may restrict visibility to a double-posted sign type.

Signs are to be located on Campus prior to an intersection, as determined in the field. Positioned on the right hand side of the travel lane. This sign type is intended for single sided use, but can be adapted for double sided use if necessary.

Sign Panel: painted aluminum with reflective vinyl text
Sign Frame: painted aluminum with removable bottom
Custom aluminum finial, painted
Decorative Pattern: masked and sprayed
Sign Post, 3” dia. aluminum, painted
Concrete footing as required

Elevation
Scale: 3/4” = 1' - 0’
Sign Type 111
Vehicular Directional, Single Post

**Horizontal Section**
Half Scale

- 3" diameter aluminum post
- Line of trim cap above
- 1/8" thick aluminum sign panel
- 1" x 1" x 1/8" aluminum channel internal frame with cross bracing as required, mitered corners, weld and grind smooth
- 1" x 1 1/2" x 1/8" aluminum channel sign frame, mitered corners, weld and grind smooth
- Reveal: 1/8" x 1" aluminum, entire height of sign panel, continuous weld to post, painted to match post

**Vertical Section**
Half Scale

- Countersunk mechanical fastener
- Aluminum trim cap, mechanically fasten with countersunk fastener painted to match
- 1" x 1" x 1/8" aluminum channel internal frame mitered corners, weld and grind smooth
- 1/8" thick aluminum header plate, weld to Sign Frame and grind smooth
- 45° bevel
- 1/8" thick aluminum sign panel
- 1" x 1" x 1/8" aluminum cross bracing as required, weld to internal frame and grind smooth
- 1" x 1" x 1/8" aluminum channel internal frame, mitered corners, weld and grind smooth
- Sign Frame: 1" x 1 1/2" x 1/8" aluminum channel, mitered corners, weld and grind smooth, with removable bottom
- Countersunk mechanical fastener
Sign Type 111
Vehicular Directional, Single Post

Custom aluminum finial painted Dark Gray
Milled aluminum post cap
Headless set screw painted to match post
3" diameter aluminum post
Milled aluminum ring affixed to post sleeve
3 1/2" dia. aluminum post sleeve
Grade
Restore surface material to original condition. See Technical Specifications

1/2" anchor plate and gussets
ss j bolts
Reinforced concrete footing

1 1/2" = 1' - 0"
Main Entrance
Central Campus
Bellarmine Chapel

Layout
Scale: 1 1/2" = 1' - 0"

Sign Type 111
Vehicular Directional, Single Post
Sign Type 112 - Vehicular Directional, Temporary Events

Typestyle: Frutiger 65 Bold
Artwork: Symbols to be provided.
Colors: Sign Frame - Black
        Sign Panel - Dark Blue
        Text & Arrow - Reflective White
        Symbols - As noted in layouts.
Description: Double sided sign with polycarbonate panel,
painted with reflective vinyl graphics in
Windmaster sign frame.
Criteria: This sign is used for providing vehicular
directions in areas of campus during events, as
necessary, to control or divert the flow of traffic
and manage parking. Signs are intended for single
sided use but can be adapted for double-sided
conditions. This is particularly true at the entrance
to parking areas where vehicles will be approaching
from two directions

Windmaster Classic Sign Frame
(Model #1005 by MDI Worldwide or equal)

Sign Panel: .020" polycarbonate, painted,
with reflective vinyl graphics
EVENT ONLY
5:00 PM

Parking Blue with Reflective White outline and symbol

Layout 1
Scale: 1" = 1' - 0"

2 5/8" min. margin
2 5/8" min. margin

2'-4"
Sign Type 115 - Parking ID, Large, Single Post

Typestyle: Bembo Semibold and Frutiger 65 Bold

Colors:
- Sign Post and Finial - Dark Gray
- Sign Panel and Frame - Dark Blue
- Text - Reflective White
- Decorative Pattern - Medium Blue

Description: Double sided aluminum sign panel and post, painted with masked and sprayed decorative pattern and reflective vinyl text.

Criteria: This sign is used for the identification of major Xavier University parking lots. The sign is most often to be located at the entrance to a parking lot and positioned perpendicular to the roadway.
Parking ID, Large, Single Post

**Horizontal Section**

Half Scale

3" diameter aluminum post

Line of trim cap above

1/8" thick aluminum sign panel

1" x 1" x 1/8" aluminum channel internal frame with cross bracing as required, mitered corners, weld and grind smooth

1" x 1 1/2" x 1/8" aluminum channel sign frame, mitered corners, weld and grind smooth

Reveal: 1/8" x 1" aluminum, entire height of sign panel, continuous weld to post, painted to match post

**Vertical Section**

Half Scale

Countersunk mechanical fastener

Aluminum trim cap, mechanically fasten with countersunk fastener painted to match

1" x 1" x 1/8" aluminum channel internal frame mitered corners, weld and grind smooth

1/8" thick aluminum header plate, weld to Sign Frame and grind smooth

45° bevel

1/8" thick aluminum sign panel

1" x 1" x 1/8" aluminum cross bracing as required, weld to internal frame and grind smooth

1" x 1" x 1/8" aluminum channel internal frame, mitered corners, weld and grind smooth

Sign Frame: 1" x 1 1/2" x 1/8" aluminum channel, mitered corners, weld and grind smooth, with removable bottom

Countersunk mechanical fastener
Sign Type 115
Parking ID, Large, Single Post

Custom aluminum finial painted Dark Gray
Milled aluminum post cap
Headless set screw painted to match post
3\" diameter aluminum post
Milled aluminum ring affixed to post sleeve
3 1/2\" dia. aluminum post sleeve
Grade
Restore surface material to original condition. See Technical Specifications
1/2\" anchor plate and gussets
ss j bolts
Reinforced concrete footing

Post Cap, Base and Footing Detail

1 1/2\" = 1' - 0"
**GALLAGHER LOT**

**VISITOR, FACULTY AND STAFF PARKING**

**PERMIT REQUIRED**

Layout 1

Scale: $1 \frac{1}{2}'' = 1' - 0''$
Sign Type 116 - Parking ID, Small, Single Post

Typestyle: Bembo Semibold and Frutiger 65 Bold

Colors: Sign Post and Finial- Dark Gray
        Sign Panel - Dark Blue
        Text - Reflective White
        Decorative Pattern - Medium Blue

Description: Single sided aluminum sign panel and aluminum post, painted with masked and sprayed decorative pattern and reflective vinyl text.

Criteria: This sign is used for the identification of Xavier University parking lots that are small or staff only.

Signs are to be located on University property, parallel to the street, as determined in the field. This sign type is intended for single-sided use only.

Scale: 3/4" = 1' - 0"
**Parking ID, Small, Single Post**

- 2 1/2" diameter aluminum post painted Dark Gray. Provide Post Cap at top of post.
- Threaded rod stud welded to bracket and fastened to post with acorn fastener. Fastener painted to match post.
- Aluminum channel the entire length of panel, welded to back of panel and painted Dark Blue.
- 1/8" aluminum sign panel mechanically fastened to post with required hardware. Back of panel painted Dark Blue.

**Horizontal Section**

**Half Size**

- Custom aluminum finial painted Dark Gray
- Milled aluminum post cap
- Headless set screw painted to match post

**Post Cap, Base and Footing Detail**

1 1/2" = 1' - 0"

- Gravel backfill
- Stainless Steel thru bolt
- Galvanized steel post sleeve with painted coating
- Reinforced Concrete footing as required
- 2 1/2" diameter aluminum post
- Milled aluminum ring affixed to post sleeve
- 3" dia. aluminum post sleeve
- Grade
- Restore surface material to original condition. See Technical Specifications.
POWER PLANT

STAFF PARKING

PERMIT REQUIRED

Layout 1

Scale: 1 1/2" = 1' 0"

1 1/2" min. margin

R = 1/4" typical

1' - 4"

1' - 10"

2 1/4" 2 3/4" 3 13/16" 1 1/2"

1/2" 1/2" 1/2" 1/2" 1/2" 1/2"
Sign Type 117 - Parking Lot Number Panel

Typestyle: Frutiger 65 Bold

Colors: Sign Panel - Dark Blue
Text - Reflective White

Description: Single sided aluminum sign panel, painted with reflective vinyl text, mounted to existing pole.

Criteria: This sign is used, in addition to Sign Type 15, to identify sections of Xavier University's larger parking lots. It is to be placed where an existing light pole or utility pole is present.
1/8" thk. Alum. sign panel

**Horizontal Section**

Half Size

Existing Round, square or octagonal Utility Pole

3/4" Stainless Steel Strapping paint strapping and bracket to match pole

Stainless Steel bracket to match SignFix Bracket HPN177, two (2) per panel

SS threaded bolt and washer ptd. to match sign panel
Sign Type 117
Parking Lot Number Panel

Layout 1

Scale: $\frac{1}{2}'' = 1' - 0''$
Sign Type 120 - Campus Information Kiosk

Artwork: Map Artwork (1 side) provided on disc by Designer, Adobe Illustrator CS3
Poster Artwork (3 sides) provided by Owner

Colors: As Noted

Description: Fabricated aluminum kiosk with glass covered internally illuminated poster cases (4 sides), pre-cast base and lead-coated copper roof.

Criteria: This four-sided kiosk is to be used for the display of promotional, event and wayfinding information. Kiosks should be located in central gateway areas and in close proximity to event facilities, such as the Cintas Center and Gallagher Hall, as well as an available power source.

Standing seam lead- or zinc-coated copper roof with ball and spike finial
Frosted tempered glass with LED internal illumination
Fabricated aluminum sign structure painted Dark Gray
Glass covered poster case with LED internal illumination
Map Artwork (1 side)
Owner Provided Poster (3 sides)

Poster: high resolution (600 dpi min.) digital transparency

Electrical supply, rough-in by others, voltage to be coordinated

Pre-cast stone base with chamfered top and eased vertical edges, color and finish to match Designer’s sample
Cast circle, 1/2” deep recess

Concrete footing as required

Scale: 3/4” = 1’ - 0”
Note: Contractor to ensure that sign conforms with all applicable electrical code requirements.

LED light fixtures on clear polycarbonate carrier panels
Note: provide access to transformers

Transformers and shut off as required

Section at Poster Cabinet
Scale: 3/4" = 1' - 0"

Line of roof overhang above

Fabricated aluminum tube structure

Glass covered poster case (4 sides)
Horizontal Section at Poster Cabinet

Scale: 3" = 1' - 0"

Horizontal Section at Frosted Glass Window Lights

Scale: 3" = 1' - 0"
Standing seam lead- or zinc-coated copper roof, wrap around bottom of plywood to prevent water infiltration

Plywood roof structure, 5/8" thick

1" x 2" alum tube

Frosted glass window lights

1" x 2" alum tube

1/2" x 1 1/8" alum tube

Glass covered poster case

LED light source (white) GE Tetra CL or equal on 1/4" thick clear polycarbonate carrier panel

Notes:
1) All interior surfaces of sign cabinet painted White
2) Contractor to ensure even illumination over entire poster area

2" x 2 1/2" x 1/8" alum tube

1/2" thick alum base plate

1" x 1" x 1/8" alum tube

1/2" dia ss stud secured to base with epoxy as required

Pre-cast stone base

Finish grade

Restore surface material to original condition. See Technical Specifications

1/2" dia ss stud secured to base and footing with epoxy as required

Reinforced concrete footing as required

Power supply, rough in by other (voltage to be confirmed)

Vertical Section

Scale: 1 1/2" = 1' - 0"
Sign Type 121 - Campus Map Display

Artwork: Map Artwork provided on disc by Designer, Adobe Illustrator CS3
Colors: As Noted
Description: Fabricated aluminum map display with digital high pressure laminate (dHPL) graphic panel, removable frame, waterjet-cut decorative grillwork, cast aluminum shield and pre-cast concrete base.

Criteria: This map display is used to provide pedestrian orientation information at Central Gathering areas, at decision points along pathways and at egress points from parking areas.

Displays should be oriented in the direction of the map graphic (facing North) whenever possible. If due North is not possible, West or East is acceptable. The map display must never be positioned facing South.
**Sign Type 121**

**Campus Map Display**

**Plan Section**

Scale: 1 1/2" = 1' - 0"

- **Line of framed graphic panel above**
- **Pre-cast stone base**
- **Decorative grillwork**
- **Cast alum shield**
- 2 1/4" dia. alum. post
- Alum. cover plate
- 1/2" x 3/4" alum. cross brace
- 1/2" x 3/4" alum. vertical

**Detail at Decorative Grillwork**

Scale: 3" = 1' - 0"

- Alum. channel, plug weld to decorative grillwork and grind smooth
- 1/4" thick waterjet-cut decorative grillwork
- Alum. backer plate for shield
- Alum. shim weld and grind smooth
- 3/8" thick cast alum shield painted 3 colors
- 3/4" x 1/2" alum. vertical to cap end of decorative grillwork
- 3/4" x 1/2" alum. cross brace

**Section at Shield**

Scale: 3" = 1' - 0"
Base/Footing Detail

Scale: 1 1/2" = 1' - 0"

- 2 1/4" diameter aluminum post
- 1/2" thick x 3 1/4" diameter aluminum cover plate, set with adhesives as required
- \( R = 3/8" \)
- Set alum tube post into pre-cast concrete base with adhesives as required
- Stainless steel pin, set with adhesives as required
- Concrete footing as required

4' - 0"
4" 2"
5'
Sign Type 121
Campus Map Display

2' - 3" (overall)
2' - 1" (graphic panel)
1' - 11" (frame opening)

Removable fabricated 1/8" thick alum frame with 45° bevel openings, corners mitered and ground smooth
Weatherproofing all around as required
1/4" thick dHPL Graphic Panel with 1" alum. channel backer, bonded as required
1/4" thick alum. spacer, weld to backer plate, use to mechanically fasten graphic panel to backer plate as required
Mechanically fasten frame to backer plate as required
1/4" thick alum. backer plate
1/4" thick alum. base plate, weld sign posts to base plate
Alum. tube frame all around with mitered corners, weld and grind smooth to base plate, mechanically fasten to backer plate

Section at Graphic Panel
Scale: 3" = 1' - 0"

1.1/4" 3/4"
1" 2" 2 1/2"
Sign Type 123 - Pedestrian Directional, Double Post

Typestyle: Bembo Semibold

Colors:
- Sign Post and Finial - Dark Gray
- Sign Panel and Frame - Dark Blue
- Text & Arrow - Reflective White
- Decorative Pattern - Medium Blue

Description: Double sided aluminum sign panel and aluminum posts, painted with masked and sprayed decorative pattern and reflective vinyl text.

Criteria: This sign is to be used for providing pedestrian directional information at major decision points where site lines are obstructed.

Typically, this is a double-sided sign meant to be read by pedestrians traveling in both directions along a path and should be positioned perpendicular to the path of travel to the right of the dominant direction of travel.
Horizontal Section
Half Scale

- 2 1/2" diameter aluminum post
- 1" x 1" x 1/8" aluminum cross bracing as required, weld to internal frame and grind smooth
- Reveal: 1/8" x 1" aluminum, entire height of sign panel, continuous weld to post, painted to match post

Vertical Section
Half Scale

- Countersunk mechanical fastener
- Removable aluminum trim cap, mechanically fasten with countersunk fastener painted to match
- 1" x 1" x 1/8" aluminum channel internal frame mitered corners, weld and grind smooth
- 1/8" thick aluminum header plate, weld to Sign Frame and grind smooth
- 45° bevel
- 1/8" thick aluminum sign panel
- 1" x 1" x 1/8" aluminum cross bracing as required, weld to internal frame and grind smooth

- 1" x 1" x 1/8" aluminum channel internal frame mitered corners, weld and grind smooth
- Sign Frame: 1" x 1 1/2" x 1/8" aluminum channel, mitered corners, weld and grind smooth
Cast aluminum finial painted Dark Gray

Milled aluminum post cap

Headless set screw painted to match post

2 1/2" diameter aluminum post

Milled aluminum ring affixed to post sleeve

3" dia. aluminum post sleeve

Grade

Restore surface material to original condition. See Technical Specifications

1/2" anchor plate and gussets

ss j bolts

Reinforced concrete footing

Post Cap, Base and Footing Detail

1 1/2" = 1' - 0"
XAVIER UNIVERSITY EXTERIOR SIGN STANDARDS

Sign Type 123
Pedestrian Directional, Double Post

Layout 1

Scale: 1 1/2" = 1' - 0"
Sign Type 124 - Pedestrian Directional, Single Post

Typestyle: Bembo Semibold

Colors: Sign Post and Finial - Dark Gray
        Sign Panel - Dark Blue
        Text & Arrow - Reflective White
        Decorative Pattern - Medium Blue

Description: Single sided aluminum sign panel and aluminum post, painted with masked and sprayed decorative pattern and reflective vinyl text.

Criteria: This sign is to be used for providing pedestrian directional information along pathways where limited information.

Elevation

Scale: 3/4" = 1' - 0"
2 1/2” diameter aluminum post painted Dark Gray. Provide Post Cap at top of post
Threaded rod stud welded to bracket and fastened to post with acorn fastener. Fastener painted to match post
Aluminum channel the entire length of panel, welded to back of panel and painted Dark Blue
1/8” aluminum sign panel mechanically fastened to post with required hardware. Back of panel painted Dark Blue

Horizontal Section

Half Size

Custom aluminum finial painted Dark Gray
Milled aluminum post cap
Headless set screw painted to match post

2 1/2” diameter aluminum post
Milled aluminum ring affixed to post sleeve
3” dia. aluminum post sleeve
Grade
Restore surface material to original condition. See Technical Specifications

Gravel backfill
Stainless Steel thru bolt
Galvanized steel post sleeve with painted coating
Reinforced Concrete footing as required

Post Cap, Base and Footing Detail

1 1/2” = 1’ - 0”
XAVIER UNIVERSITY EXTERIOR SIGN STANDARDS

Sign Type 124
Pedestrian Directional, Single Post

124.3

Layout 1

Scale: 1 1/2" = 1' - 0"

West
Campus

Athletic
Fields

Text on panel

1'-4" typical

1 1/2" min.
margin

1 1/2" min.
margin

R = 1/4" typical

2'-0" typical

2 9/16", 1 5/8"

1 3/8"
Sign Type 130 - Freestanding Building ID, Large, Double Post

Typestyle: Bembo Semibold and Frutiger 55 Roman

Colors: Sign Posts and Finials - Dark Gray
Sign Panel and Frame - Dark Blue
Text - Reflective White
Decorative Pattern - Medium Blue
Shield - 3 Colors as noted in Graphic Standards

Description: Double sided aluminum sign panel and aluminum posts, painted with masked and sprayed decorative pattern and reflective vinyl text.

Criteria: This Sign is used for identifying major destinations along the campus perimeter or along streets with higher speed. Typically this sign should be installed perpendicular to the main road and is double-sided, unless otherwise noted.

Final locations are to be determined in the field.

Scale: 3/4" = 1'-0"
Roll • Barresi & Associates

XAVIER UNIVERSITY EXTERIOR SIGN STANDARDS

Date November 2011

Sign Type 130
Freestanding Building ID, Large, Double Post

Cast Aluminum Shield - Detail
Scale: Half Full

Cast Aluminum Shield - Vertical Section
Scale: Half Full

8"
**1/8" thick aluminum sign panel**

- 1" x 1" x 1/8" aluminum channel internal frame with cross bracing as required, mitered corners, weld and grind smooth
- 1" x 1 1/2" x 1/8" aluminum channel sign frame, mitered corners, weld and grind smooth
- Reveal: 1/8" x 1" aluminum, entire height of sign panel, continuous weld to post, painted to match post

**Countersunk mechanical fastener**

- Removable aluminum trim cap, mechanically fasten with countersunk fastener painted to match
- 1" x 1" x 1/8" aluminum channel internal frame mitered corners, weld and grind smooth
- Cast Shield bonded to face of header plate
- 1/8" thick aluminum header plate, weld to Sign Frame and grind smooth
- 45° bevel
- 1/8" thick aluminum sign panel
- 1" x 1" x 1/8" aluminum cross bracing as required, weld to internal frame and grind smooth
- 1" x 1" x 1/8" aluminum channel internal frame mitered corners, weld and grind smooth
- Sign Frame: 1" x 1 1/2" x 1/8" aluminum channel, mitered corners, weld and grind smooth
Custom aluminum finial painted Dark Gray
Milled aluminum post cap
Headless set screw painted to match post
3" diameter aluminum post
Milled aluminum ring affixed to post sleeve
3 1/2" dia. aluminum post sleeve
Grade
Restore surface material to original condition. See Technical Specifications
1/2" anchor plate and gussets
ss j bolts
Reinforced concrete footing

Post Cap, Base and Footing Detail
1 1/2" = 1' - 0"
Layout 1 - Single Line
Scale: 3/4" = 1' - 0"

Layout 2 - Two Lines
Scale: 3/4" = 1' - 0"
Sign Type 131 - Freestanding Building ID, Large, Single Post

Typestyle: Bembo Semibold, Frutiger 55 Roman
Colors: Sign Post and Finial - Dark Gray
Sign Panel and Frame - Dark Blue
Text - Reflective White
Decorative Pattern - Medium Blue
Shield - 3 colors as noted in the Graphic Standards

Description: Double sided aluminum sign panel and aluminum posts, painted with masked and sprayed decorative pattern and reflective vinyl text.

Criteria: This sign is used for the identification of buildings where site lines may be obstructed by landscaping or parked cars.

Freestanding identification signs are typically used for buildings that have a significant first time visitor function or event component.

This sign is most often mounted perpendicular to the face of the building or pathway leading to the entry.

Scale: 3/4" = 1' - 0"

Sign Post, 3" dia. aluminum, painted
Concrete footing as required
Decorative Pattern: masked and sprayed
Cast aluminum shield, painted
Sign Panel: painted aluminum with reflective vinyl text.
Sign Frame: painted aluminum with removable bottom
Custom aluminum finial, painted
Sign Type 131
Freestanding Building ID, Large, Single Post

Cast Aluminum Shield - Detail
Scale: Half Full

Cast Aluminum Shield - Vertical Section
Scale: Half Full
**Sign Type 131**  
Freestanding Building ID, Large, Single Post

---

**Horizontal Section**  
Half Scale

- 3" diameter aluminum post
- Line of trim cap above
- 1/8" thick aluminum sign panel
- 1" x 1" x 1/8" aluminum channel internal frame with cross bracing as required, mitered corners, weld and grind smooth
- 1" x 1 1/2" x 1/8" aluminum channel sign frame, mitered corners, weld and grind smooth
- Reveal: 1/8" x 1" aluminum, entire height of sign panel, continuous weld to post, painted to match post

---

**Vertical Section**  
Half Scale

- Countersunk mechanical fastener
- Aluminum trim cap, mechanically fasten with countersunk fastener painted to match
- 1" x 1" x 1/8" aluminum channel internal frame mitered corners, weld and grind smooth
- Cast Shield bonded to face of header plate
- 1/8" thick aluminum header plate, weld to Sign Frame and grind smooth
- 45° bevel
- 1/8" thick aluminum sign panel
- 1" x 1" x 1/8" aluminum cross bracing as required, weld to internal frame and grind smooth
- 1" x 1" x 1/8" aluminum channel internal frame mitered corners, weld and grind smooth with removable bottom
- Sign Frame: 1" x 1 1/2" x 1/8" aluminum channel, mitered corners, weld and grind smooth
Custom aluminum finial painted Dark Gray
Milled aluminum post cap
Headless set screw painted to match post
3" diameter aluminum post
Milled aluminum ring affixed to post sleeve
3 1/2" dia. aluminum post sleeve
Grade
1/2" anchor plate and gussets
ss j bolts
Reinforced concrete footing

Post Cap, Base and Footing Detail

1 1/2" = 1' - 0"
Sign Type 132 - Freestanding Building ID, Large, Double Post

Typestyle: Bembo Semibold and Frutiger 55 Roman

Colors:
- Sign Posts and Finials - Dark Gray
- Sign Panel and Frame - Dark Blue
- Text - Reflective White
- Decorative Pattern - Medium Blue
- Shield - 3 Colors as noted in Grapic Standards

Description: Double sided aluminum sign panel and aluminum posts, painted with masked and sprayed decorative pattern and reflective vinyl text.

Criteria: There are two primary functions for this sign. The first is for the identification of buildings in areas of campus that are accessible primarily by pedestrian paths and which have a significant student or first-time visitor function. The second is for secondary buildings along the perimeter or outlying areas of campus that do not serve a significant student or visitor population.

Signs should be mounted parallel to the face of the building and to one side of the entry or path.

These signs are primarily single sided but can be adapted for a double sided application if necessary, perpendicular to the path of travel.
1" x 1" x 1/8" aluminum channel internal frame with cross bracing as required, mitered corners, weld and grind smooth

1" x 1 1/2" x 1/8" aluminum channel sign frame, mitered corners, weld and grind smooth

Reveal: 1/8" x 1" aluminum, entire height of sign panel, continuous weld to post, painted to match post

3" diameter aluminum post

1/8" thick aluminum sign panel

1" x 1" x 1/8" aluminum channel internal frame with cross bracing as required, mitered corners, weld and grind smooth

1/8" thick aluminum header plate, weld to Sign Frame and grind smooth

1/8" thick aluminum sign panel

1" x 1" x 1/8" aluminum cross bracing as required, weld to internal frame and grind smooth

1" x 1" x 1/8" aluminum channel internal frame mitered corners, weld and grind smooth

Countersunk mechanical fastener

Removable aluminum trim cap, mechanically fasten with countersunk fastener painted to match

1" x 1" x 1/8" aluminum channel internal frame mitered corners, weld and grind smooth

Cast Shield bonded to face of header plate

45° bevel

1/8" thick aluminum sign panel

Sign Frame: 1" x 1 1/2" x 1/8" aluminum channel, mitered corners, weld and grind smooth

1 3/4"
Sign Type 132
Freestanding Building ID, Small, Double Post

- Custom aluminum finial painted Dark Gray
- Milled aluminum post cap
- Headless set screw painted to match post
- 3" diameter aluminum post
- Milled aluminum ring affixed to post sleeve
- 3 1/2" dia. aluminum post sleeve
- Grade
  - Restore surface material to original condition. See Technical Specifications
- 1/2" anchor plate and gussets
- ss j bolts
- Reinforced concrete footing

Post Cap, Base and Footing Detail

1 1/2" = 1' - 0"
XAVIER UNIVERSITY EXTERIOR SIGN STANDARDS

Sign Type 132
Freestanding Building ID, Small, Double Post

Layout 1 - Single Line
Scale: 1" = 1' - 0"

Layout 2 - Two Lines
Scale: 1" = 1' - 0"

(*) Note: Decrease text height in 1/8" increments down from 3" when necessary for copyfitting purposes.
UNIVERSITY APARTMENTS

Layout 3 - No Address

Scale: 1" = 1' - 0"

(*) Note: Decrease text height in 1/8" increments down from 3" when necessary for copy-fitting purposes.
Sign Type 133A - Building ID Plaque, Large

Typestyle: Bembo Semibold and Frutiger 55 Roman

Colors:  
Sign Panel and Frame- Dark Blue  
Text - White  
Decorative Pattern - Medium Blue  
Shield - 3 Colors as noted in Graphic Standards

Description: Single sided aluminum plaque, painted with masked and sprayed decorative pattern and white text, mounted to building by entrance.

Criteria: Building plaques are to be used for identifying major buildings at secondary entrances, small scale academic buildings and residences, and separate entrances that service major destinations.

Signs are mounted to the building fascia adjacent to the entrance. The mounting height and position should adhere to the standards but may require adjustment based on field conditions and architectural features.
133A.2

Elevation 2

Scale: 1/4" = 1'-0"
3/16" thick aluminum plate Shield bonded to face of header plate, ease edges

1/8" thick aluminum header plate, weld to Sign Frame and grind smooth

45° bevel

3/4" x 7/8" x 1/8" aluminum channel internal frame mitered corners, weld and grind smooth

Sign Frame: 3/4" x 1/2" x 1/8" aluminum channel, mitered corners, weld and grind smooth with removable top, ease edges

Sign Frame: 3/4" x 1" x 1/8" aluminum channel, removable top, ease edges

1/8" thick aluminum sign panel, removable

1" x 1" x 1/8" aluminum cross bracing as required, weld to internal frame and grind smooth

Wall fasteners as required V.I.F

S.S. thread-ease tamperproof fastener

Sign Type 133A
Building ID Plaque, Large

XAVIER UNIVERSITY EXTERIOR SIGN STANDARDS

Roll • Barresi & Associates

Date November 2011

133A.3

Vertical Section

Scale: Half Size
**XAVIER UNIVERSITY EXTERIOR SIGN STANDARDS**

**Sign Type 133B**

**Building ID Plaque, Small**

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**Layout 1 - Single Line with Address**

Scale: 1 1/2" = 1' - 0"

- **SINGLE LINE**
- **STREET ADDRESS**

- 3/4" min. margin

- Graphics on panel

- Aluminum Plate shield, masked and sprayed

---

**Layout 2 - Double Line with Address**

Scale: 1 1/2" = 1' - 0"

- **POWER PLANT**
- **1626 HERALD AVENUE**

- 3/4" min. margin

- Decorative Pattern: masked and sprayed

- Sign Frame: painted aluminum with removable top.

---

**Layout 3 - No Address**

Scale: 1 1/2" = 1' - 0"

- **ART GALLERY**

- 3/4" min. margin

- Decorative Pattern: masked and sprayed

- Sign Frame: painted aluminum with masked and sprayed text

---
Sign Type 135A - Building ID Letters, Large

Typestyle: Bembo Regular
Color: Dark Gray
Light Gray
Description: 1" deep fabricated stainless steel letters with painted finish, stand-off pin mounted to building facade.
Criteria: Dimensional letters are used for identifying all building types and are mounted in the primary entrance side of the building, which may include more than one significant point of entry. If possible, the letters should be weighted closer to the building entrance to strengthen wayfinding.

The standard format for building identification letters is all caps. The size of the letters should be appropriate to the scale of the building and its prominence, as determined the field.

Dimensional letters are used for identifying the building name only. Colleges, schools or departments shall not be identified on the exterior.

Letter height varies from 7 1/2" to 10"
See Location Elevations for size.
Letter height shall be determined in relation to the scale of the location.

Layout
Scale: N.T.S.

Section
Scale: Half Size
Location Elevation 1
Scale: 1/8" - 1'-0"

Location Elevation 2
Scale: ±1/8" - 1'-0"

Sign Type 135A
Building ID Letters, Large
Location Elevation 3

Scale: 1/8" - 1'-0"
Sign Type 135B - Building ID Letters, Medium

Typestyle: Bembo Regular

Color: Dark Gray
Light Gray

Description: 3/4" deep fabricated stainless steel letters with painted finish, stand-off pin mounted to building facade.

Criteria: Dimensional letters are used for identifying all building types and are mounted in the primary entrance side of the building, which may include more than one significant point of entry. If possible, the letters should be weighted closer to the building entrance to strengthen wayfinding.

The standard format for building identification letters is all caps. The size of the letters should be appropriate to the scale of the building and its prominence, as determined the field.

Dimensional letters are used for identifying the building name only. Colleges, schools or departments shall not be identified on the exterior.

Letter height varies from 5" to 7"
See Location Elevations for size
Letter height shall be determined in relation to the scale of the location.

MICHAEL J. CONATON
LEARNING COMMONS
Location Elevation 2
Scale: 1/8" - 1'-0"

Location Elevation 3
Scale: 1/8" - 1'-0"
Location Elevation 4
Scale: Not to scale

Location Elevation 5
Scale: 1/8" - 1'-0"
Location Elevation 6
Scale: $\frac{1}{8}$" - 1'-0"

Location Elevation 7
Scale: $\frac{1}{8}$" - 1'-0"
Sign Type 135C - Building Letters, Small

Typestyle: Bembo Regular
Color: Dark Gray
Description: 1/2" deep fabricated stainless steel letters with painted finish, stand-off pin mounted to building facade.

Criteria: Smaller dimensional letters are used to identify secondary buildings or augment the primary dimensional lettering when multiple entrances warrant additional letter sets.

Letter height varies from 2 1/2" to 4 1/2"
See Location Elevations for size

Letter height shall be determined in relation to the scale of the location.

STEFHENV
AND DOLORES
SMITH HALL

Scale: N.T.S.

1/8"

1/2"

Face of building

1/2" deep fabricated stainless steel letter, all edges and faces painted Dark Gray

Stainless steel threaded stud set in epoxy

Stainless steel stand off

Section
Scale: Half Size
Sign Type 135C
Building ID Letters, Small

Location Elevation 1
Scale: 3/8” - 1'-0”

Sign Type 138, see Dwg. No. 138.1

Align

STEPHEN AND DOLORES SMITH HALL
Location Elevation 2

Scale: 3/8" - 1'-0"
Sign Type 136 - Refurbish Letters

Description: Clean existing recessed masonry lettering and apply Translucent Gray Lithichrome Shadow to interior of letters.

Criteria: Cleaning and applying a tint to existing carved lettering is done to improve legibility. This is particularly important for buildings with a high percentage of public or first-time visitors.

The application of Lithichrome Shadow should only be executed by an experienced crafts person, by hand, either with traditional brush or masked and airbrushed.
Sign Type 137 - Building ID Letters on Panel

Typestyle: Bembo Regular
Color: Text - Dark Gray
Background - TBD

Description: 3/4" deep fabricated metal letters with painted finish, mounted to panel.

Criteria: Sign panels with dimensional lettering shall be provided where building surfaces do not allow for the application of lettering directly on the building. Panels shall be scaled and positioned in a way that is consistent with the architecture and appropriate to existing patterns and linear relationships.

The color of the panels should complimentary to the architectural finishes.
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XAVIER UNIVERSITY EXTERIOR SIGN STANDARDS

Date  November 2011

Sign Type 137
Building ID Letters on Panel

**137.2**

Existing iron bar provide shielding

1" Alum. channel frame

1/8" Alum. face and bracket, ptd. to match Designer's Sample.

3/4" deep fabricated metal letters, fastened through face of sign, all edges and faces painted Dark Gray

Mounting bracket, painted to match sign panel

Fastener

**Section**

Scale: Half Size
Sign Type 137
Building ID Letters on Panel

Layout 1
Scale: 1/2" - 1'-0"
**Criteria:** Building entrance graphics provide the name of the building directly at the entrance, along with additional information including trespassing message, automatic door message and the no smoking symbol.

The name of schools or colleges, departments or other information is not permitted on entrance doors, with the following exceptions:

- Schools or Colleges associated with a donor name.
- If access to a specific department is only provided through one of many exterior doors, then the name of the department can be applied to that particular door.

**Note:** Letter sizes may have to be adjusted to fit on a panel. Use the letter sizes shown as a starting point. Adjust as necessary to fit existing conditions.

**Condition 1 - Single Door**

Scale: 1/2" = 1' - 0"
**Condition 2 - One Pair of Double Doors**

Scale: 3/8" = 1' - 0"

Apply building name and No Smoking symbol on lefthand leaf.

Apply all graphics on right hand leaf.

**Condition 3 - Two Pairs of Double Doors**

Scale: 3/8" = 1' - 0"
Apply symbols and other information on door panels as shown.

Condition 4 - Center Light
Scale: 3/8" = 1' - 0"

Apply building name on sidelight

Apply symbols and other information on door

Apply building name to center light.

Condition 5 - Sidelight
Scale: 3/8" = 1' - 0"

Condition 6 - Panelized Door
Scale: 3/8" = 1' - 0"
JOSEPH HALL

Matte White lettering. (Confirm in field. Provide Matte Black lettering if lighting conditions require.)

Matte white outline and symbol. Clear Background. (See Above)

Red and Black symbol on Matte White background.

Caution: Automatic Door
Property of Xavier University
No Trespassing

CONATON LEARNING COMMONS

Caution: Automatic Door
Property of Xavier University
No Trespassing

Layout - Single Line Name
Scale: 1 1/2" = 1' - 0"

Layout - Multiple Line Name
Scale: 1 1/2" = 1' - 0"
Sign Type 140 - Regulatory

Typestyle: Frutiger 65 Bold

Colors:
- Sign Post - Dark Gray
- Sign Panel - Dark Blue
- Text & Arrow - Reflective White
- Accent Stripe - Medium Blue

Description: Single sided aluminum sign panel and aluminum post, painted with masked and sprayed stripe and reflective vinyl text.

Criteria: Small regulatory signs are used to provide campus policies and regulations. These signs are primarily located at the egress path from a parking area unless otherwise noted.

Regulatory signs are single-sided and mounted perpendicular to the path of travel.

Accent Stripe: masked and sprayed

Sign Panel: Painted aluminum with reflective vinyl text.

Sign Post: 2 1/2" diameter aluminum, painted.

Concrete footing as required

Elevation

Scale: 3/4" = 1' - 0"
2 1/2" diameter aluminum post painted Dark Gray. Provide Post Cap at top of post.

Threaded rod stud welded to bracket and fastened to post with acorn fastener. Fastener painted to match post.

Aluminum channel the entire length of panel, welded to back of panel and painted Dark Blue.

1/8" aluminum sign panel mechanically fastened to post with required hardware. Back of panel painted Dark Blue.

1/8" thick aluminum post cap, weld and grind smooth, painted to match post.

2 1/2" diameter aluminum post.

Grade

Restore surface material to original condition. See Technical Specifications.

Gravel backfill

Stainless Steel thru bolt

Galvanized steel post sleeve with painted coating

Reinforced Concrete footing as required

**Footing Detail**

$1 \frac{1}{2}'' = 1' - 0''$
FIREARMS PROHIBITED
EXCEPT BY AUTHORIZED LAW ENFORCEMENT PERSONNEL
VIOLATORS ARE SUBJECT TO PROSECUTION UNDER SECTION 2911.21 ORC.
PUNISHABLE BY A $250 FINE/30 DAYS IN JAIL

Layout 1

Scale: 1 1/2" = 1' - 0"
Sign Type 141 - Parking Regulatory

Typestyle: Frutiger 65 Bold

Colors: Sign Post - Dark Gray  
Sign Panel - Dark Blue  
Text - Reflective White  
Symbols - As noted in layouts

Description: Single sided aluminum sign panel and aluminum post, painted with reflective vinyl graphics and text.

Criteria: Parking regulatory signs are used for identifying and regulating the use of individual parking spaces or a designated area of parking.

Signs are single-sided. For reserved or accessible parking, provide a sign for each space.
2 1/2” diameter aluminum post painted Dark Gray. Provide Post Cap at top of post.

Threaded rod stud welded to bracket and fastened to post with acorn fastener. Fastener painted to match post.

Aluminum channel the entire length of panel, welded to back of panel and painted Dark Blue.

1/8” aluminum sign panel mechanically fastened to post with required hardware. Back of panel painted Dark Blue.

1/8” thick aluminum post cap, weld and grind smooth, painted to match post.

2 1/2” diameter aluminum post.

Grade

Restore surface material to original condition. See Technical Specifications.

Gravel backfill

Stainless Steel thru bolt

Galvanized steel post sleeve with painted coating

Reinforced Concrete footing as required

Footings Detail

1 1/2” = 1’ - 0”
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Date  November 2011  Sign Type 141  Parking Regulatory

**Sign Type 141**  
**Parking Regulatory**

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**Layout 1**

Scale: 1 1/2" = 1' - 0"

- **TEXT:** 1" min. margin
- **R:** 1/4" typical
- **Symbol and Arrow:** EQ 6" EQ
- **Graphic:** Parking Blue with Reflective White outline and graphic

**Layout 2**

Scale: 1 1/2" = 1' - 0"

- **Symbol:** EQ 6" EQ
- **Graphic:** White circle with Red outline / slash and Black 'P'

**Layout 3**

Scale: 1 1/2" = 1' - 0"

- **Symbol:** EQ 6" EQ
- **Graphic:** Parking Blue with Reflective White outline and graphic

---
Sign Type 142 - Traffic Control

Typestyle: Bembo Semibold and Frutiger 65 Bold

Colors: Sign Post - Dark Gray  
Sign Panel - Dark Blue  
Text - Reflective White  
Accent stripe - Medium Blue

Description: Single sided aluminum sign panel and post, painted with masked and sprayed strip and reflective vinyl graphics and text.

Criteria: Traffic control signs are used for regulating the movement of vehicular traffic in accordance with the Manual on Uniform Traffic Control signs and should be specified and located by a licensed Civil Engineer or Traffic Engineer.
3” diameter aluminum post painted Dark Gray. Provide Post Cap at top of post.

Threaded rod stud welded to bracket and fastened to post with acorn fastener. Fastener painted to match post.

Aluminum channel the entire length of panel, welded to back of panel and painted Dark Blue.

1/8” aluminum sign panel mechanically fastened to post with required hardware. Back of panel painted Dark Blue.

Horizontal Section
Half Size

1/8” thick aluminum post cap, weld and grind smooth, painted to match post.

3” diameter aluminum post

Grade

Restore surface material to original condition. See Technical Specifications.

Gravel backfill

Stainless Steel thru bolt

Galvanized steel post sleeve with painted coating

Reinforced Concrete footing as required

Footing Detail

1 1/2” = 1’ - 0”
Roll Barresi & Associates

XAVIER UNIVERSITY EXTERIOR SIGN STANDARDS

Date November 2011

Sign Type 142
Traffic Control

Sign Type 142.3

Traffic Control

142.3

Layouts 1

Scale: 1" = 1' - 0"

Note:
Provide MUTCD Standard Sign Panels, paint back of panels Dark Gray.
**Note:**
Provide MUTCD Standard Sign Panels, paint back of panels Dark Gray
Sign Type 143 - Street Name Sign

Typestyle: Bembo Semibold

Colors: Sign Post and Finial - Dark Gray
       Sign Panel - Dark Blue
       Text - Reflective White

Description: Double sided aluminum sign panel and post, painted with reflective vinyl text.

Note: Each location has two panels unless otherwise noted in the Message Schedule.

Criteria: This sign type is used for identifying streets that are within the University’s Campus and include the name of both the primary street and secondary intersecting street.
3" dia. x 1/4" wall aluminum post

1/4" thick aluminum backer panel painted Dark Gray

1/8" thick aluminum sign panel bonded to backer panel

Backer panel welded to post along entire length of seam. Weld ground smooth and even.

1/4" thick aluminum backer panel set into and welded to post painted Dark Gray

3/16" thick aluminum Plate both sides bonded to backer panel, painted Dark Blue

1/8" thick aluminum Sign Panel both sides, painted Dark Blue

Primary Road
Secondary Road

Plan View

Half Scale

1/4" Length of panel, varies - see layouts

Horizontal Section

Half Scale

Vertical Section through Sign Panel

Half Scale
Cast aluminum finial painted Dark Gray
Milled aluminum post cap
Headless set screw painted to match post
3" diameter aluminum post
Milled aluminum ring affixed to post sleeve
3 1/2" dia. aluminum post sleeve
Grade

Restore surface material to original condition. See Technical Specifications

1/2" anchor plate and gussets
ss j bolts
Reinforced concrete footing

**Post Cap, Base and Footing Detail**

1 1/2" = 1' - 0"
Herald AVE

Victory PKWY

Francis Xavier WAY

Layout 1
Scale: 1 1/2" = 1' - 0"

Layout 2
Scale: 1 1/2" = 1' - 0"

Layout 3
Scale: 1 1/2" = 1' - 0"
Sign Type 144A - Accessible Path, Post and Panel

Colors:  
- Sign Post - Dark Gray  
- Sign Panel - Dark Blue  
- Arrow - Reflective White  
- Symbol - As noted in layouts

Description: Single sided aluminum sign panel and aluminum post, painted with reflective vinyl graphics and text.

Scale: 3/4” = 1’ - 0”

Sign Panel: Painted aluminum with reflective vinyl text

Sign Post: 2 1/2” diameter aluminum, painted

Concrete footing as required
2 1/2" diameter aluminum post painted Dark Gray. Provide Post Cap at top of post.

Threaded rod stud welded to bracket and fastened to post with acorn fastener. Fastener painted to match post.

Aluminum channel the entire length of panel, welded to back of panel and painted Dark Blue.

1/8" aluminum sign panel mechanically fastened to post with required hardware. Back of panel painted Dark Blue.

1/8" thick aluminum post cap, weld and grind smooth, painted to match post.

2 1/2" diameter aluminum post.

Grade

Restore surface material to original condition. See Technical Specifications.

Gravel backfill

Stainless Steel thru bolt. Shim as necessary to prevent rocking.

Galvanized steel post sleeve with painted coating.

Reinforced Concrete footing as required.

**Footing Detail**

1 1/2" = 1' - 0"
**Sign Type 144A**

**Accesible Path Sign, Post & Panel**

- **Date:** November 2011

- **144A.3**

**Layout**

Scale: 3" = 1' - 0"

- **Parking Blue with Reflective White outline and graphic**
- **Text on panel**
- **R = 1/4" typical**

Dimensions:
- 8" typical
- 11" typical
- 2 1/2" 1 1/8" 4"
- 1 5/8"
Sign Type 144B - Accessible Path Sign, Wall Mounted

Colors:  
- Sign Panel - Dark Blue
- Arrow - Reflective White
- Symbol - As noted in layouts

Description: Single sided aluminum sign panel, painted with reflective vinyl graphics and text.
Sign Type 144B
Accessible Path, Wall Mounted

Parking Blue with Reflective White outline and graphic

Text on panel

Scale: 3” = 1’ - 0”

8” typical

R = 1/4” typical

1 5/8”

1 1/8”

2 1/2”

11” typical
Sign Type 150 - Vehicular Light Pole Banner

Artwork: To be provided by Owner.

Description: Double sided digital-print banner with banner brackets top and bottom, mounted to existing street light pole.

Existing street light pole

8'-0"

12'-0"

1'-9"

Full color digital print (600 dpi minimum) on exterior grade matte vinyl. Slip hems sewn top and bottom for banner brackets. Double stitch edges.

Banner bracket with polymer-coated fiberglass arms, attach to light pole with 3/4" stainless steel banding.

BannerFlex II hardware by Kalamazoo Banner Works or equal.

Provide tether to keep banner from slipping off post

3/4" stainless steel banding
Sign Type 151 - Pedestrian Light Pole Banner

Artwork: To be provided by Owner.

Description: Double sided digital-print banner mounted to existing bracket arms on existing pole.

Full color digital print (600 dpi minimum) on exterior grade matte vinyl. Slip hems sewn top and bottom for banner brackets. Double stitch edges.
Sign Type 152 - Street Pole Banner

Artwork: To be provided by Owner.

Colors:  
- Banner - Full color, per artwork  
- Pole and Bracket Arms - Black  
- Ball Finial - Silver

Description: Double sided digital-print banner. Tapered aluminum banner pole with fabricated aluminum bracket arms.

6" dia. aluminum ball finial painted Silver

Tapered alum banner pole painted Black as manufactured by:
Pole Tech  
East Setauket, NY  
800-633-6733 or equal

Full color digital print (600 dpi minimum) on exterior grade matte vinyl. Slip hems sewn top and bottom for banner brackets. Double stitch edges.

Custom fabricated aluminum banner bracket arms painted Black

Concrete footing as required
 fabricated aluminum cap

6" dia. aluminum ball finial

Split clamps with stainless steel bolts, color and finish to match pole

2" dia. alum banner bracket arm, color and finish to match pole

1" closed alum adjustable tension arm (top only)

Tapered alum banner pole, diameter and wall thickness dimensions to be determined by pole manufacturer

2 set screws along bottom bracket arm to hold banner in place. Banners grommetted in set screw location.

Flash collar, finish to match pole with clear silicone caulk

Finish Grade, restore surface material to original condition. See Technical Specifications

2" waterproof cement

4 hardwood wedges, 90 degrees O.C., tamped with clean dry sand

Reinforced concrete footing as required

16 GA corrugated galvanized steel sleeve, painted

Steel fins welded to steel pole 120 degrees O.C. to prevent pole from rotating

3 steel centering wedges 120 degrees O.C

18" sq. x 3/16" thick steel plate welded to sleeve

3/4" dia. steel spike. Length to be verified by Contractor

Fabrication Detail

Scale: 3/4" = 1' - 0"
Sign Type 153 - Flag Pole Banner, Halyard

Artwork: To be provided by Owner

Colors: Banner - Full color, per artwork
        Pole - Black
        Ball Finial - Silver

Description: Double sided digital-print banner. Tapered aluminum banner pole with internal halyard.

Concrete footing as required

6" dia. alum ball finial painted Silver

Internal halyard truck

Beaded retainer min. 3 required for banner, provide grommet in banner

Polyester applique banner (right reading both sides with black-out layer in between), double stitch edges, with grommets to accept retainers.

Counter weight

Tapered aluminum banner pole painted Black
as manufactured by:
Pole Tech
East Setauket, NY
800-633-6733
or equal

Access door

Scale: $\frac{1}{4}'' = 1' - 0''$
Sign Type 154 - Flag Pole Banner, Fixed Bracket

Artwork: To be provided by Owner.

Colors:  
- Banner - Full color, per artwork
- Pole - Black
- Ball Finial - Silver

Description: Double sided banner. Tapered aluminum banner pole with fabricated aluminum banner bracket arms.

Full color digital print (600 dpi minimum) on exterior grade matte vinyl or double sided polyester applique banner with black-out inner layer. Slip hems sewn top and bottom for banner brackets. Double stitch edges.

Custom fabricated aluminum banner bracket arms painted Black

Tapered alum banner pole painted Black as manufactured by: Pole Tech East Setauket, NY 800-633-6733 or equal

Concrete footing as required

Scale: 1/4" = 1' - 0"
Sign Type 154
Flag Pole Banner, Fixed Bracket

Tapered alum banner pole, diameter and wall thickness dimensions to be determined by pole manufacturer.

2 set screws along bottom bracket arm to hold banner in place. Banners grommetted in set screw location.

Flash collar, finish to match pole with clear silicone caulk.

Finish Grade, restore surface material to original condition. See Technical Specifications.

2" waterproof cement.

4 hardwood wedges, 90 degrees O.C., tamped with clean dry sand.

Reinforced concrete footing as required.

16 GA corrugated galvanized steel sleeve, painted.

Steel fins welded to steel pole 120 degrees O.C. to prevent pole from rotating.

3 steel centering wedges 120 degrees O.C.

18" sq. x 3/16" thick steel plate welded to sleeve.

3/4" dia. steel spike. Length to be verified by Contractor.

Fabrication Detail
Scale: 3/4" = 1' - 0"
**Sign Type 155A - Building Mounted Banner**

**Artwork:** To be provided by Owner.

**Colors:**
- Banner - Full color, per artwork
- Bracket - Dark Gray

**Description:** Single sided digital-print banner. Fabricated steel bracket top and bottom.

*Layout - Example*

Scale: 3/8" = 1' - 0"

Fabricated steel bracket and base plate painted Dark Gray, mechanically fasten to building as required.

Full color digital print (600 dpi minimum) on exterior grade matte vinyl. Slip hems sewn top and bottom for banner brackets. Double stitch edges.
Building facade, field verify material and mounting condition

Banner

Mechanically fasten as required

1 1/2" dia. steel tube with capped ends

Banner grommeted

1/2" dia. stainless steel threaded rod

2" dia. steel pipe with capped ends

12" x 12" x 1/2" steel base plate

Scale: 3" = 1' - 0"
Location Elevation - Example

Scale: Not to Scale
Sign Type 155B - Building Mounted Banner, Vertical Strip

Artwork: To be provided by Owner.

Colors: Banner - Full color, per artwork
Bracket - Dark Gray

Description: Single sided digital-print banner.
Fabricated steel bracket top and bottom.

Fabricated steel bracket and base plate painted Dark Gray, mechanically fasten to building as required.

Full color digital print (600 dpi minimum) on exterior grade matte vinyl.
Slip hems sewn top and bottom for banner brackets. Double stitch edges.

Layout - Example
Scale: 3/8" = 1' - 0"
155B.2

Building Mounted Banner, Vertical Strip

- Building facade, field verify material and mounting condition
- Banner
- Mechanically fasten as required
- 12" x 12" x 1/2" steel base plate
- 1 1/2" dia. steel tube with capped ends
- Banner grommeted
- 1/2" dia. stainless steel threaded rod
- 2" dia. steel pipe with capped ends

**Vertical Section**

Scale: 3" = 1' - 0"
Location Elevation - Example

± 2'- 9” Field Verify
± 35'- 0” Field Verify

Scale: Not to Scale