Campus Design Standards
Details and Specifications

UMASS AMHERST

CAMPUS SIGNAGE
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UNIVERSITY OF MASSACHUSETTS AMHERST

UMASS AMHERST

UMASS AMHERST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

Linotype Sabon Roman

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

Linotype Frutiger 65 Bold
### Color

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Shown below are standard setbacks for signs along secondary campus roads. If field conditions do not allow for the setbacks indicated, obtain approval from Facilities prior to installation.

- **Residential Area ID**
- **Major Building ID**
- **Building ID**

![Sign Setback Guidelines Diagram](image)

- **Major Directional**

- **Secondary Directional**
• Parking Lot ID

- Sidewalk
- Planting Strip
- Parking Lot

- Edge of sidewalk
- 2’-0” min*

• Parking Restrictions

- Sidewalk
- Planting Strip
- Parking Lot

- Edge of Parking lot
- 2’-0” min*
Description: Granite Monument with sandblasted seal and lettering.

Panel Size: 22'-0"w x 4'-0"h x 1'-6"d

Typeface: Sabon Roman

Graphics: UMass Seal

Finish: Thermal finish monument

Materials:
Two part Granite Monument: 1) 22'-0" x 4'-0" Top
2) 22'-0" x 2'-0" Base

Footing: Class D reinforced concrete footing.
A Side Detail

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

UMass Seal Sandblasted with Gray Lithichrome infill

Typeface: Sabon Roman 7 1/2" high Sandblasted with Gray Lithichrome infill
Granite Monument, Thermal Finish

Sandblasted Graphics with Lithichrome infill

1/2" Reveal

12" x 3/4" φ Stainless Steel Pins Grouted in Place

Granite Base

18" x 3/4" φ Stainless Steel Pins Grouted in Place

Class D Cement Concrete with Reinforcing as required

Section with Footing

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

University of Massachusetts Amherst
Campus Design Standards
**Description:** Double sided, post and panel sign.

**Panel Size:** 8'-0"w x 3'-0"h

**Typeface:** Sabon Roman

**Graphics:** UMass Seal - White reflective sheeting

**Finish:**
- Header Bar and Posts - Dark Gray acrylic polyurethane
- Sign Panel - Red acrylic polyurethane

**Materials:**
- Posts: 3" x 7" Aluminum rectangular post extrusion.
- Sign panel: 1/8" Aluminum plate.
- Footing: Class D concrete sono-tube type with reinforcing.
- Pad: Class D concrete with welded wire mesh reinforcing above 6" gravel, extending 12" beyond footing and having rounded corners.

See dwg 2.4 for footing details
Sign Type 02 – Campus Identification
Panel Layouts

University of Massachusetts Amherst
Campus Design Standards

March 2007

Layout
Scale: 3/4" = 1' - 0"
1 3/8" x 7" aluminum Bleed Body Extrusions

1/8" thk. Aluminum panel

1 3/4" x 7" aluminum Slide Body Extrusions

1/8" thk. Alum. panel

3" x 7" aluminum Rectangular Post Extrusion

1 1/2" x 4 3/8" aluminum Reveal Extrusion

1 3/8" x 7" aluminum Bleed Body Extrusion

1 1/2" x 4 3/8" aluminum Reveal Extrusion

3" x 7" aluminum Rectangular Post Extrusion

1/8" thk. Alum. panel

1/2"
Note: Sign Contractor is responsible for engineering all post and footing requirements.

- **Sign post**
- **(4) 1/2" Aluminum gusset supports**
- **18" x 18" x 1/2" Aluminum plate**
- **Finish grade**
- **1/2" x 18" S.S. J-Bolts**
- **Class D Cement Concrete with Reinforcing as required**
- **Leveling bolts**
- **Base Plate and Footing**

1" = 1'-0"
Description: Double sided, post and panel sign.

Panel Size: 7'-0"w x 2'-8"h

Typeface: Frutiger 65 Bold

Graphics:
UMass Seal – masked and sprayed to match PMS 199
Text – White reflective sheeting
Logotype – Sabon Roman, White and Gray vinyl

Finish:
Header Bar and Posts - Dark Gray acrylic polyurethane
Sign Panel - Red acrylic polyurethane

Materials:
Posts: 3" x 7" Aluminum rectangular post extrusion.
Sign panel: 1/8" Aluminum plate.
Footing: Class D concrete sono-tube type with reinforcing.
Pad: Class D concrete with welded wire mesh reinforcing above 6" gravel, extending 12" beyond footing and having rounded corners.
Panel Layouts

A  Layout
Scale: 3\(\frac{3}{4}\)" = 1' - 0"

B  Layout
Scale: 3\(\frac{3}{4}\)" = 1' - 0"

C  Layout
Scale: 3\(\frac{3}{4}\)" = 1' - 0"

University of Massachusetts Amherst
Campus Design Standards
**Description:** Double sided, post and panel sign.

**Panel Size:** 6'-0"w x 2'-3"h

**Typeface:** Frutiger 65 Bold

**Graphics:**
- Text – White reflective sheeting
- Logotype – Sabon Roman, White and Gray vinyl

**Finish:**
- Footer Bar and Posts - Dark Gray acrylic polyurethane
- Sign Panel - Red acrylic polyurethane

**Materials:**
- Posts: 3" x 7" Aluminum rectangular post extrusion.
- Sign panel: 1/8" Aluminum plate.
- Footing: Class D concrete sono-tube type with reinforcing.
- Pad: Class D concrete with welded wire mesh reinforcing above 6" gravel, extending 12" beyond footing and having rounded corners.

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**University of Massachusetts Amherst**
**Campus Design Standards**
Campus Center
1 Campus Center Way

Morrill Science IV
639 North Pleasant St.
Description: Double sided, post and panel sign.

Panel Size: 3'-0"w x 6" x 2"d

Typeface: Frutiger 65 Bold

Graphics:
Text – White reflective sheeting
Logotype – Sabon Roman, White and Gray vinyl

Finish:
Footer Bar and Posts - Dark Gray acrylic polyurethane
Sign Panel - Red acrylic polyurethane

Materials:
Posts: 1 3/4" x 3 1/4" Aluminum rectangular post extrusion.
Sign panel: 2" x 6" Aluminum Copy Bar.
Footing: Class D concrete sono-tube type with reinforcing.
Pad: Class D concrete with welded wire mesh reinforcing above 6" gravel, extending 12" beyond footing and having rounded corners.

See dwg 5.4 for footing details
Morrill Science IV

A

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

639 North Pleasant St

B

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

UMASSAMHERST

C

Layout
Scale: 3/4" = 1' - 0"
Section A
Scale: 3" = 1' - 0"

2" x 6" aluminum
Copy Bar Extrusion

3/8" x 1 1/4" aluminum bar

2" x 3" aluminum
Copy Bar Extrusion

Section B
Scale: 3" = 1' - 0"

2" x 6" aluminum
Copy Bar Extrusion

1 1/16" x 1 3/8" aluminum
Copy Bar Reveal Extrusion

1 3/4" x 3 1/4" aluminum
Rectangular Post Extrusion

Section C
Scale: 3" = 1' - 0"

2" x 6" aluminum
Copy Bar Extrusion

1 1/16" x 1 3/8" aluminum
Copy Bar Reveal Extrusion

1 3/4" x 3 1/4" aluminum
Rectangular Post Extrusion
Note: Sign Contractor is responsible for engineering all post and footing requirements.

(4) 1/2" Aluminum gusset supports

12" x 12" x 1/2" Aluminum plate

Finish grade

1/2" x 18" S.S. J-Bolts

Class D Cement Concrete with Reinforcing as required

Leveling bolts

1' = 1'-0"

Base Plate and Footing

A

March 2007

University of Massachusetts Amherst
Campus Design Standards
Description: Dimensional Letters
Typeface: Sabon Roman
Letter Height: 4"

NOTE:
Dimensions to be verified in field prior to fabrication

Adobe Illustrator tracking 125
Description: Dimensional Letters

Typeface: Frutiger 65 Bold

Letter Height: 9"


NOTE: Dimensions to be verified in field prior to fabrication

University of Massachusetts Amherst
Campus Design Standards
1/4" thick stainless steel letter, stud mounted to fascia. Dark Gray acrylic polyurethane finish.

Pin mounted to wall with silicon adhesive as required.
Description: Double sided, post and panel sign.
Panel Size: 7'-0"w x 4'-6"h
Typeface: Frutiger 65 Bold

Graphics:
Arrow and Text – White reflective sheeting
Symbol – White reflective "P" on blue reflective sheeting
Logotype – Sabon Roman, White and Gray vinyl

Finish:
Footer Bar and Posts - Dark Gray acrylic polyurethane
Sign Panel - Red acrylic polyurethane

Materials:
Posts: 3" x 7" Aluminum rectangular post extrusion.
Sign panel: 1/8" Aluminum plate.
Footing: Class D concrete sono-tube type with reinforcing.
Pad: Class D concrete with welded wire mesh reinforcing above 6" gravel, extending 12" beyond footing and having rounded corners.

University of Massachusetts Amherst
Campus Design Standards
Visitors Center
Mullins Center
Parking Garage
Campus Center

Visitors Center
Mullins Center
Parking Garage
Campus Center

Arrow on text Typ.

Symbol on text Typ.

Gray vinyl
1 3/4" x 7" aluminum Slide Body Extrusions

1/8" thk. Aluminum panel

3" x 7" aluminum Rectangular Post Extrusion

1 1/2" x 4 3/8" aluminum Reveal Extrusion

1 3/8" x 7" aluminum Bleed Body Extrusions

1 3/8" x 7" aluminum Bleed Body Extrusions

1/8" thk. Alum. panel

1/2"
**Description:** Double sided, post and panel sign.

**Panel Size:** 4'-0"w x 4'-6"h

**Typeface:** Frutiger 65 Bold

**Graphics:**
- Arrow and Text – White reflective sheeting
- Logotype – Sabon Roman, White and Gray vinyl

**Finish:**
- Footer Bar and Posts - Dark Gray acrylic polyurethane
- Sign Panel - Red acrylic polyurethane

**Materials:**
- Posts: 3" x 7" Aluminum rectangular post extrusion.
- Sign panel: 1/8" Aluminum plate.
- Footing: Class D concrete sono-tube type with reinforcing.
- Pad: Class D concrete with welded wire mesh reinforcing above 6" gravel, extending 12" beyond footing and having rounded corners.

---

See dwg 2.4 for footing details

**Scale:** 1/2" = 1' - 0"
Morrill House  
Homestead House  
Stockbridge House  
Faculty Club  
Wilder Hall

Fine Arts Center  
Mullins Center  
Bowker Auditorium

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

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

layout C  
Scale: 3/4" = 1' - 0"
**Sign Type 08 – Secondary Directional**

Section

**A**

Scale: 3" = 1' - 0"

1 3/4" x 7" aluminum Slide Body Extrusions

1/8" thk. Aluminum panel

Bleed Body Extrusions

**B**

Scale: 3" = 1' - 0"

1 3/4" x 7" aluminum Slide Body Extrusion

3" x 7" aluminum Rectangular Post Extrusion

1 1/2" x 4 3/8" aluminum Reveal Extrusion

1/8" thk. Alum. panel

**C**

Scale: 3" = 1' - 0"

1 3/8" x 7" aluminum Bleed Body Extrusion

1 1/2" x 4 3/8" aluminum Reveal Extrusion

3" x 7" aluminum Rectangular Post Extrusion

1/8" thk. Alum. panel

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**University of Massachusetts Amherst**

**Campus Design Standards**
Description: Double sided, post and panel sign.

Panel Size: 5'-0"w x 10"h and 4'-0"w x 8"h, varies

Typeface: Frutiger 55 Roman

Graphics: White reflective sheeting

Finish:
Posts - Dark Gray acrylic polyurethane
Sign Panel - Red acrylic polyurethane

Materials:
Posts: 2" Steel pipe
Brackets: Supr-Lok cast aluminum slot bracket and cross.
Sign panel: 1/8" Aluminum extrusion.
Footing: Class D concrete sono-tube type with reinforcing.
Panel Layouts

A. Layout
Scale: 3/4" = 1' - 0"

B. Layout
Scale: 3/4" = 1' - 0"

NOTE:
Sign panel length cut at 6" increments (3'-6", 4'-0", 4'-6", etc.)

C. Detail
Scale: Not to scale

University of Massachusetts Amherst
Campus Design Standards
**Sign Type 10 – Campus Map Display**

**Elevation**

**Description:** Double sided display case  
**Panel Size:** 4'-9"w x 3'-0"h  
**Typeface:** Sabon Roman  
**Graphics:** Logotype – Sabon Roman, White and Gray vinyl  
**Finish:**  
- Header Bar and Posts - Dark Gray acrylic polyurethane  
- Display Case: Red acrylic polyurethane

**Materials:**  
- **Posts:** 3" x 7" Aluminum rectangular post extrusion.  
- **Header panel:** 1/8" Aluminum plate.  
- **Display Case:** Fabricated aluminum with glass cover.  
- **Footing:** Class D concrete sono-tube type with reinforcing.  
- **Pad:** Class D concrete with welded wire mesh reinforcing above 6" gravel, extending 12" beyond footing and having rounded corners.

**NOTE:**  
Display Case should always be oriented so that the campus map is facing north: The reverse side of the display case should be used as a bulletin board for events announcements and information.

---

**Elevation**

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

See dwg 2.4 for footing details
Scotchprint Map mounted on plastic impregnated cork panel.
1/4" glass face
Fabricated alum. cabinet painted Red

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

B Layout
Scale: 3/4" = 1' - 0"
1/2" thk. Aluminum panel

1 3/8" x 7" aluminum Bleed Body Extrusions

Section A

Scale: 3" = 1' - 0"

Continuous Piano Hinge ptd. finish, Red
Extruded Alum. Frame ptd. finish, Red

1/4" thk. plastic impregnated cork board, to match Claridge Board, Black, mounted to plywood backer panel

1/4" thk. tempered glass panel
Black Anodized cam lock assembly

Extruded Alum. frame housing to match Tablet & Ticket Co. Series 950, or approved Equal ptd. finish, Red

Weepholes
Note:
Provide propping rods on both sides within cabinet to hold enclosure open during operation.

Fabricator to ensure that casework is watertight, and properly ventilated to prevent condensation on glass.

1/4" alum. mounting plate ptd. finish, Red

Extruded Alum. frame housing to match Tablet & Ticket Co. Series 950, or approved Equal ptd. finish, Red

Weatherstripping, Black

Extruded Alum. Frame ptd. finish, Red

1/4 thk. tempered glass panel

1/4" thk. plastic impregnated cork board, to match Claridge Board, Black, mounted to plywood backer panel
Sign Type 11 – Secondary Map Display

Description: Double sided display case

Panel Size: 2'-2"w x 3'-0"h

Typeface: Sabon Roman

Graphics: Logotype - Sabon Roman, White and Gray vinyl

Finish: Header Bar and Posts - Dark Gray acrylic polyurethane
Display Case: Red acrylic polyurethane

Materials:
Posts: 1 3/4" x 3 1/4" Aluminum rectangular post extrusion.
Header panel: 1/8" Aluminum plate.
Display Case: Fabricated aluminum with glass cover.
Footing: Class D concrete sono-tube type with reinforcing.
Pad: Class D concrete with welded wire mesh reinforcing above 6" gravel, extending 12" beyond footing and having rounded corners.

NOTE:
Display Case should always be oriented so that the campus map is facing north: The reverse side of the display case should be used as a bulletin board for events announcements and information.

See dwg 5.4 for footing details

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

University of Massachusetts Amherst
Campus Design Standards
Layout A
Scale: 3/4" = 1' - 0"

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

Scotchprint Map mounted on plastic impregnated cork panel.
1/4" glass face
Fabricated alum. cabinet painted Red
A

1/8" thk. Aluminum panels

1" x 3 1/4" aluminum Bleed Body Extrusions

Extruded Alum. Frame ptd. finish, Red

1/4" thk. plastic impregnated cork board, to match Claridge Board, Black, mounted to plywood backer panel

1/4" thk. tempered glass panel

Black Anodized cam lock assembly

Extruded Alum. Frame housing to match Tablet & Ticket Co. Series 950, or approved Equal ptd. finish, Red

Weepholes

Section

Scale: 3" = 1' - 0"

March 2007

University of Massachusetts Amherst
Campus Design Standards
Note:
Fabricator to ensure that casework is watertight, and properly ventilated to prevent condensation on glass.

1/4" alum. mounting plate ptd. finish, Red
Extruded Alum. frame housing to match Tablet & Ticket Co. Series 950, or approved Equal ptd. finish, Red
Continuous Piano Hinge ptd. finish, Red
Extruded Alum. Frame ptd. finish, Red
1/4 thk. tempered glass panel
1 1/16" x 1 3/8" aluminum Reveal Extrusion
1 3/4" x 3 1/4" aluminum Rectangular Post Extrusion
1/4" thk. plastic impregnated cork board, to match Claridge Board, Black, mounted to plywood backer panel

Section
A
Half Full

University of Massachusetts Amherst
Campus Design Standards
Sign Type 12 – Parking Lot ID

**Description:** Double sided, post and panel sign.

**Panel Size:** 2'-6"w x 3'-8"h and 2'-6"w x 4'-9"h

**Typeface:** Frutiger 65 Bold, Frutiger 75 Black

**Graphics:**
- Symbols and Text – White reflective sheeting
- Color coded bands – Scotchcal Vinyl

**Finish:**
- Posts and Panel - Dark Gray acrylic polyurethane

**Materials:**
- Posts: 1 3/4" x 3 1/4" Aluminum rectangular post extrusion.
- Sign panel: 1/8" Aluminum plate.
- Footing: Class D concrete sono-tube type with reinforcing.
- Pad: Class D concrete with welded wire mesh reinforcing above 6" gravel, extending 12" beyond footing and having rounded corners.

---

**Elevation**

Scale: 1/2" = 1’ - 0’

See dwg 5.4 for footing details

University of Massachusetts Amherst
Campus Design Standards
UMass Visitor Parking
Pay at Paystation

LOT 00
Red Permit

UMass Reserved Parking
Tow Zone
Permit Required
7AM – 5PM
Mon – Fri

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

White reflective "P" on Blue reflective sheeting

Gray vinyl

Red

LOT 00

University of Massachusetts Amherst
Campus Design Standards
1/8" thk. Aluminum panel

1" x 3 1/4" aluminum Slide Body Extrusions

A  Section
Scale: 3" = 1' - 0"

1" x 3 1/4" aluminum Slide Body Extrusions
1 1/16" x 1 3/8" aluminum Reveal Extrusion
1 3/4" x 3 1/4" aluminum Rectangular Post Extrusion

B  Section
Scale: 3" = 1' - 0"
Sign Type 13 – Parking Restrictions

Description: Single sided, single post and panel sign.

Panel Size: 1'-0"w x 1'-6"h

Typeface: Frutiger 65 Bold

Graphics:
Symbol and Text: Reflective Sheeting
Header Band – Vinyl

Finish:
Posts and Panel - Dark Gray acrylic polyurethane

Materials:
Sign: 1/8" thick aluminum, back painted Dark Gray.
Post: 2" x 2" x 1/8" steel tube painted Dark Gray.
Footing: Class D cement concrete Sono-Tube type.

See dwg 13.5 for footing details
**ACCESSIBLE PARKING ONLY**

**VISITOR PARKING ONLY**

**15 MINUTE LOADING**

Vehicle Flashers Required at All Times

**TOW ZONE**

**NO OVERNIGHT PARKING**

DEC 1 – APR 1
1AM - 7AM

**TOW ZONE**

- **A** Layout
  - Scale: 1 1/2" = 1' - 0"
- **B** Layout
  - Scale: 1 1/2" = 1' - 0"
- **C** Layout
  - Scale: 1 1/2" = 1' - 0"
- **D** Layout
  - Scale: 1 1/2" = 1' - 0"

White reflective symbol and border on blue reflective sheeting.
NO PARKING FIRE LANE TOW ZONE

RESERVED PARKING SEIU TOW ZONE

NO PARKING BOTH SIDES TOW ZONE

RESERVED PARKING SEIU TOW ZONE

Layout A
Scale: 1 1/2" = 1’ - 0"

Layout B
Scale: 1 1/2" = 1’ - 0"

Layout C
Scale: 1 1/2" = 1’ - 0"

Layout D
Scale: 1 1/2" = 1’ - 0"
2" x 2" x 1/8" steel tube, painted Dark Gray

1/8" thick aluminum sign panel, painted front and back

Tamper proof mechanical fastener

Neoprene gasket to prevent bi-metallic reaction

Section A
Scale: Full Size
Note: Sign Contractor is responsible for engineering all post and footing requirements.

- Sign post
- Finish grade
- Class D Cement Concrete with Reinforcing as required

Base Plate and Footing
1" = 1'-0"
Description: Vinyl Exterior Banners.
Banner Size: 2’-4”w x 6’-3 3/4”h
Typeface: Sabon Roman, unless specified
Graphics:
Header – Dark Gray
Large UMass Seal – To match PMS 199
Seal and Text – White
Materials: Vinyl Banners and S.S. Brackets

Elevation Scale: 3/8” = 1’ - 0”
Sign Type 20 – Campus Banner

Banner Layout

Reunion Weekend

University of Massachusetts Amherst
Campus Design Standards
Sign Type 21 – Housing Banner

Elevation

Description: Sunbrella Exterior Banners.
Banner Size: 3'-2"w x 12'-3"h, varies
Typeface: Frutiger 65 Bold
Graphics: Two fabric colors and appliqued white text
Materials: Sunbrella fabric banners and Steel Brackets

Note:
Distinctive colors should be used for each Residential Area. Colors shown are for example only.

Elevation

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

1" Ø Steel Pipe

Dwight

Northeast Residential Area
**Description:** Single sided, post and panel sign

**Panel Size:** 8'-0"w x 6'-0"h

**Typefaces:** Frutiger 65 Bold, Frutiger 55 Roman

**Graphics:**
- Image – full color Scotchprint
- Text – white vinyl
- Logotype – Sabon Roman, white and gray (#B2B2B2; R178, G178, B178; C31, M25, Y25, K0) vinyl

**Finish:**
- Sign panel – UMass maroon (#881C1C; R136, G28, B28; C28, M98, Y87, K32) acrylic polyurethane
- Footer and posts – dark gray (#333333; R51, G51, B51; C69, M63, Y62, K58) acrylic polyurethane

**Materials:**
- Posts: 4" x 4" wood posts
- Sign panel: 3/4" MDO plywood
- Footing: Class D concrete sono-tube
Building the Future
Another investment in UMass Amherst

New Athletic Training Facility & Press Box
Construction Manager: Consigli Construction Co., Inc.
Financed by: University of Massachusetts Building Authority
Designer: Perkins + Will

UMASSAMHERST
www.umass.edu/building

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

Panel Layouts
University of Massachusetts Amherst
Campus Design Standards
Section A
Scale: Half Full

4" x 4" Wood Posts

2" x 2" x 1/8" Aluminum Angle

3/4" MDO Plywood

Sign Type 22 – Construction Sign
March 2007

University of Massachusetts Amherst
Campus Design Standards
Description: Single sided, post and panel sign.
Panel Size: 4'-0"w x 2'-6"h
Typeface: Frutiger 65 Bold
Graphics:
Text – White vinyl
Finish:
Sign Panel and Posts – Dark Gray acrylic polyurethane
Header Band – Red acrylic polyurethane
Materials:
Posts: 3" x 3" Wood posts.
Sign panel: 3/4" MDO plywood.
Footing: Direct Burial.

Elevation
Scale: 1/2" = 1' - 0"
Construction Detour
South College
Thompson Hall
Machmer Hall

Layout
Scale: 3/4" = 1' - 0"
Section A
Scale: Half Full

3" x 3" Wood Posts

2" x 2" x 1/8" Aluminum Angle

3/4" MDO Plywood

University of Massachusetts Amherst
Campus Design Standards
Description: Single sided, post and panel sign.

Panel Size: 1'-6" w x 2'-2" h

Typeface: Frutiger 65 Bold

Graphics:
Text - White vinyl

Finish:
Sign Panel and Posts - Dark Gray acrylic polyurethane
Header - Red acrylic polyurethane

Materials:
Posts: 3" x 3" Wood posts.
Sign panel: 1/2" MDO plywood.
Footing: Direct Burial.
Sign Type 24 – Temporary Directional
Panel Layouts

Construction Detour

Thompson Hall

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

March 2007
3" x 3" Wood Posts

2" x 2" x 1/8" Aluminum Angle

1/2" MDO Plywood

Section A
Scale: Half Full
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 Extrusions for post and panel signs shall be series 3 and series 7 extrusions by Sign Comp, Comstock Park, MI or approved equal. As shown on the drawings, the system is made up of post, reveal, body and cap extrusions combined with an aluminum sign panel and base plate to form a complete sign.

4. 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.

5. 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.

6. Cast aluminum brackets for the Street Name Sign shall be Supr-Lok slot brackets and crosses with extruded street name blades by Hall Signs, Bloomington, IN or approved equal.

B. Stainless Steel

1. Stainless steel for all Signing shall be Type 304-18-8 alloy, bright cold-rolled stainless steel with no markings.

2. Stainless steel shall receive finish as indicated on drawings. Finish shall be uniform without waves or imperfections of any kind.

C. 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 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.
D. 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. 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.

3. Metal fasteners and hardware in contact with dissimilar metals shall have a protective coating or neoprene shields to prevent electrolytic action.

E. 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.

F. Vinyl

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

G. 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.

H. Vinyl Graphics and Banners

1. Graphics shall be produced using 3M Scotchprint imaging system directly from a digital file. 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 300 dpi. Images on Controltac shall be sealed with 8910 or 8911 over laminating film, 3M Co. St. Paul MN or approved equal.
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 5 years colorfastness without the use of protective coatings or laminates.

I. Fabric Banners

1. Canvas: Fabric shall be "Sunbrella" as manufactured by Glen Raven Mills, or approved equal. Fabric shall be 100% acrylic woven marine fabric, solution dyed, weighing 9.25 Ounces per square yard, in colors selected by Designer. All graphics and lettering to be appliquéd.

2. All stitching and hemlines for banners to be reinforced with 1-1/4" nylon webbing material covered by a return of the banner material. Triple cross-stitched. All edge binding to be rolled into banner edges.

3. Banner material shall be flame-retardant. Sign Contractor shall provide warranty to the Owner in writing certifying that material meets all applicable fire code requirements.

4. Banner material shall not fade. Sign Contractor shall provide a 5-year warranty to the Owner in writing.

J. Display Cases

1. Case shall be complete with frame, glass door, and all accessories and appurtenances required for complete installation. Door shall be 1/4" clear tempered glass with custom frame all sides and shall be provided with a lock. Locking devices shall be tumbler type and keyed alike. Each door shall have continuous hinge at top and concealed "swing-out" prop to hold door open.

2. Provide (5) sets of keys for locking device.

K. 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 Signing 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 for use in pin
mounting.

L. 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.

2. Graphics on pre-cut friscut shall be sharp and clean and shall be
bonded securely to granite prior to blasting. Stencil shall be removed
with stoddard solvent and cleaned with water. Sandblasted area shall
be clean and free of imperfections.
   Following blasting the graphics shall be sprayed with Transparent Gray
Lithichrome Shadow cut 50% with lacquer thinner, Cleveland
Lithichrome Co., Fort Scott, KS, or approved equal.

3. 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.

M. 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.
2. CONCRETE FOOTINGS

A. Site Preparation and Restoration

1. 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.

B. Materials and Construction


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

3. 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".

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

5. 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.