

SPECIFICATIONS

SECTION 101422- NON-ILLUMINATED DIMENSIONAL LETTERS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes:

1. Exterior Non-Illuminated Dimensional Letters of light weight fabricated metal construction.
2. Sign Type see drawings.

1.2 SUBMITTALS

A. Product Data: For each type of product indicated. Include material details for each sign specified.

B. Shop Drawings: Show fabrication and installation details for signs.

1. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.

2. Provide message list and layout for each sign.

C. Samples for Initial Selection: Manufacturer's color charts consisting of actual units or sections of units showing the full range of colors available.

D. Samples for Verification: For each product and for the full range of color, texture, and sign material indicated.

E. Sign Schedule: As indicated on drawings.

F. Qualification Data: For Installer.

G. Maintenance Data: Submit maintenance data for installed products, including precautions against harmful cleaning materials and methods.

H. Warranty: Special warranty specified in this Section.

1.3 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

B. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.

- C. Source Limitations for Signs: Obtain each sign type indicated from one source from a single manufacturer.
- D. Regulatory Requirements: Comply with applicable provisions in ADA-ABA Accessibility Guidelines, ICC/ANSI A117.1, Life and Safety regulations in accordance with Local Code Authority.

1.4 PROJECT CONDITIONS

- A. Field Measurements: Verify sizes and mounting heights by field measurements before fabrication and indicate measurements on Shop Drawings.

1.5 COORDINATION

- A. Coordinate placement of anchorage devices with templates for installing signs.

1.6 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.

1. Warranty Period: One year from date of Substantial Completion. PART 2 - PRODUCTS

2.1 MATERIALS

- A. Letter Material: Lightweight aluminum in finish to be determined. Provide finish suitable for exterior application.

B. Fabricated Dimensional Letters:

- 1. Height: As shown on drawings.
- 2. Depth: As shown on drawings.
- 3. Letter Style: Font TBD, typical.
- 4. Mounting Method: Wall Mount Flush

2.2 FABRICATED DIMENSIONAL LETTERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

- 1. ASI-Modulex, Inc.
- 2. Fast Signs
- 3. Diskey Architectural Signage

4. InPro Corporation

2.3 FABRICATION

A. General:

1. General: Comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.
2. Design, fabricate, and install sign assemblies to prevent buckling, opening up of joints, and over-stressing of welds and fasteners.
3. Mill joints to a tight, hairline fit. Form joints exposed to the weather to exclude water penetration.
4. Conceal fasteners if possible; otherwise, locate fasteners where they will be inconspicuous.
5. Create signage to required sizes and layout. Comply with requirements indicated for design, dimensions, finish, color, and details of construction.

2.4 ACCESSORIES

- A. Anchors and Inserts: Provide anchors and inserts for installations as required. Provide hot-dip galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion-bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.

2.5 FINISHES, GENERAL

- A. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.
- B. Verify that items, including anchor inserts, are sized and located to accommodate signs.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Locate signs and accessories where indicated, using mounting methods of types described and complying with manufacturer's written instructions.
- B. Install signs level, plumb, and at heights indicated, with sign surfaces free of distortion and other defects in appearance.
- C. Comply with sign manufacturer's written instructions except where more stringent requirements apply.
 - 1. Mechanical Fasteners: Use nonremovable mechanical fasteners placed through predrilled holes. Attach signs with fasteners and anchors suitable for secure attachment to substrate as recommended in writing by sign manufacturer.

3.3 CLEANING AND PROTECTION

- A. After installation, clean soiled sign surfaces according to manufacturer's written instructions. Protect signs from damage until acceptance by Owner.

END OF SECTION 101422

SECTION 101426- VINYL LETTERS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes:

1. Exterior dimensional letters of cut acrylic composition.
2. Sign Type see drawings.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated. Include material details for each sign specified.
- B. Shop Drawings: Show fabrication and installation details for signs.
 1. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
 2. Provide message list and layout for each sign.
- C. Samples for Initial Selection: Manufacturer's color charts consisting of actual units or sections of units showing the full range of colors available.
- D. Samples for Verification: For each product and for the full range of color, texture, and sign material indicated.
- E. Sign Schedule: As indicated on drawings.
- F. Qualification Data: For Installer.
- G. Maintenance Data: Submit maintenance data for installed products, including precautions against harmful cleaning materials and methods.
- H. Warranty: Special warranty specified in this Section.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of products.
- B. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.
- C. Source Limitations for Signs: Obtain each sign type indicated from one source from a single manufacturer.

- D. Regulatory Requirements: Comply with applicable provisions in ADA-ABA Accessibility Guidelines, ICC/ANSI A117.1, Life and Safety regulations in accordance with Local Code Authority.

1.4 PROJECT CONDITIONS

- A. Field Measurements: Verify sizes and mounting heights by field measurements before fabrication and indicate measurements on Shop Drawings.

1.5 COORDINATION

- A. Coordinate placement of anchorage devices with templates for installing signs.

1.6 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.

- 1. Warranty Period: One year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Letter Material: Vinyl
- B. Cut Vinyl Letters:
 - 1. Height: As shown on drawings.
 - 2. Letter Style: To be determined
 - 3. Color: Standard from manufacturer's full range of integral colors.
 - 4. Mounting Method: Flush

2.2 CUT ACRYLIC LETTERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. ASI-Modulex, Inc.
 - 2. Fast Signs
 - 3. Diskey Architectural Signage
 - 4. Circle C Products

2.3 FABRICATION

- A. General:

1. General: Comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.
2. Design, fabricate, and install sign assemblies to prevent buckling, opening up of joints, and overstressing of welds and fasteners.
3. Mill joints to a tight, hairline fit. Form joints exposed to the weather to exclude water penetration.
4. Conceal fasteners if possible; otherwise, locate fasteners where they will be inconspicuous.
5. Create signage to required sizes and layout. Comply with requirements indicated for design, dimensions, finish, color, and details of construction.

2.4 ACCESSORIES

2.5 FINISHES, GENERAL

- A. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.
- B. Verify that items, including anchor inserts, are sized and located to accommodate signs.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Locate signs and accessories where indicated, using mounting methods of types described and complying with manufacturer's written instructions.
- B. Install signs level, plumb, and at heights indicated, with sign surfaces free of distortion and other defects in appearance.
- C. Comply with sign manufacturer's written instructions except where more stringent requirements apply.
 1. Mechanical Fasteners: Use nonremovable mechanical fasteners placed through predrilled holes. Attach signs with fasteners and anchors suitable for secure attachment to substrate as recommended in writing by sign manufacturer.

3.3 CLEANING AND PROTECTION

- A. After installation, clean soiled sign surfaces according to manufacturer's written instructions. Protect signs from damage until acceptance by Owner.

END OF SECTION 101426

SECTION 101441- UNFRAMED PHOTOPOLYMER PANEL SIGNS

PART 1-GENERAL

1.1 SUMMARY

- A. This Section includes Wayfinder sign
- 1. Unframed signs, with photopolymer face bonded to acrylic backing plaque, for interior applications and exterior grade locations listed on the drawings.

- 2. Sign Type C, E

1.2 DEFINITIONS

- A. ADA-ABA Accessibility Guidelines: U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines."

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include material details for each sign specified.
- B. Shop Drawings: Show fabrication and installation details for signs.
 - 1. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
 - 2. Provide message list, typestyles, graphic elements, including tactile characters and Braille, and layout for each sign.
- C. Samples for Initial Selection: Manufacturer's color charts consisting of actual units or sections of units showing the full range of colors available.
- D. Samples for Verification: For each product and for the full range of color, texture, and sign material indicated.
- E. Sign Schedule.
- F. Qualification Data: For Installer.
- G. Maintenance Data: Submit maintenance data for installed products, including precautions against harmful cleaning materials and methods.
- H. Warranty: Special warranty specified in this Section.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of products.
 - B. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.
 - C. Source Limitations for Signs: Obtain each sign type indicated from one source from a single manufacturer.
 - D. Regulatory Requirements: Comply with applicable provisions in ADA-ABA Accessibility Guidelines, ICC/ANSI A117.1, Life and Safety regulations in accordance with Local Code Authority.
- 1. ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1 require tactile and Braille characters to be raised a minimum of 1/32 inch (0.8 mm) from face of sign.

1.5 PROJECT CONDITIONS

- A. Field Measurements: Verify sizes and mounting heights by field measurements before fabrication and indicate measurements on Shop Drawings.

1.6 COORDINATION

- A. Coordinate placement of anchorage devices with templates for installing signs.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.

- 1. Failures include, but are not limited to, the following:
 - a) Deterioration of polymer finishes beyond normal weathering.
 - b) Deterioration of embedded graphic image colors and sign lamination.

- 2. Warranty Period: One year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Face: Photopolymer face in matte (non-glare) finish.

2.2 PANEL SIGNS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. ASI-Modulex, Inc.
 2. Fast Signs
 3. Advance Corporation, Braille-Tac Division
 4. InPro Corporation
- B. Interior Panel Signs: Provide smooth sign panel surfaces constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch (1.5 mm) measured diagonally from corner to corner.
- C. Exterior Signs: Provide smooth sign panel surfaces constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch (1.5 mm) measured diagonally from corner to corner. Provide exterior grade signs at locations indicated on the drawings.

2.3 FABRICATION

A. Tactile Graphics and Text:

1. Provide tactile copy and grade 2 Braille raised 1/32 inch minimum from plaque first surface by manufacturer's photopolymer bonded process. Sign face of single material, tactile characters and Braille integral to photopolymer. Adhesive-fixed characters are not acceptable.
2. Provide lettering and graphics precisely formed, uniformly opaque to comply with relevant ADA regulations and requirements indicated for size, style, spacing, content, position, and colors. Tactile characters to be raised min. 1/32" from surface. Computerized translation of sign copy to be responsibility of the manufacturer.
3. Mounting Panel Options:
 - a) Same size.
 - b) Thickness: 0.125 inch thick matte finished acrylic sheet
4. Background Appearance Options:
 5. Solid colors: To be selected from manufacturer's standard range.
 6. Tactile Lettering and Graphics Color Options: To be selected from manufacturer's standard range.
 7. Overall panel size: As indicated on the drawings.
 8. Shape: As indicated on the drawings.
 9. Installation Method: As recommended by sign manufacturer.

B. General:

1. Comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.
2. Preassemble signs in the shop to the greatest extent possible to minimize field assembly. Disassemble signs only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation, in a location not exposed to view after final assembly.
3. Conceal fasteners if possible; otherwise, locate fasteners to appear inconspicuous.
4. Form panels to required size and shape. Comply with requirements indicated for design,

dimensions, finish, color, and details of construction.

5. Coordinate dimensions and attachment methods to produce message panels with closely fitting joints. Align edges and surfaces with one another in the relationship indicated.

2.4 ACCESSORIES

- A. Anchors and Inserts: Provide hot-dip galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion-bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.

2.5 FINISHES, GENERAL

- A. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.
- B. Verify that items, including anchor inserts, are sized and located to accommodate signs.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Locate signs and accessories where indicated, using mounting methods of types described and complying with manufacturer's written instructions.
- B. Install signs level, plumb, and at heights indicated, with sign surfaces free of distortion and other defects in appearance.
- C. Wall Signs: Install signs on walls adjacent to latch side of door where applicable. Where not indicated or possible, such as double doors, install signs on nearest adjacent walls. Locate to allow approach within 3 inches (75 mm) of sign without encountering protruding objects or standing within swing of door.

- D. Wall-Mounted Signs: Comply with sign manufacturer's written instructions except where more stringent requirements apply.
 - 1. Two-Face Tape: Mount signs to smooth, nonporous surfaces. Do not use this method for vinyl-covered or rough surfaces.
 - 2. Hook-and-Loop Tapes: Mount signs to smooth, nonporous surfaces.
 - 3. Magnetic Tape: Mount signs to smooth, nonporous surfaces.
 - 4. Silicone-Adhesive Mounting: Attach signs to irregular, porous, or vinyl-covered surfaces.
 - 5. Shim Plate Mounting: Provide 1/8-inch- (3-mm-) thick, concealed aluminum shim plates with predrilled and countersunk holes, at locations indicated, and where other mounting methods are not practicable. Attach plate with fasteners and anchors suitable for secure attachment to substrate. Attach panel signs to plate using method specified above.
 - 6. Mechanical Fasteners: Use nonremovable mechanical fasteners placed through predrilled holes. Attach signs with fasteners and anchors suitable for secure attachment to substrate as recommended in writing by sign manufacturer.

3.3 CLEANING AND PROTECTION

- A. After installation, clean soiled sign surfaces according to manufacturer's written instructions. Protect signs from damage until acceptance by Owner.

END OF SECTION 101441

SECTION 101470- WAYFINDING - Section Location/Ad Display

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes:
 - 1. Framed wayfinding/ad displays for interior graphics and advertisements.
 - 2. Sign Type D.
- 1.2 SUBMITTALS
 - A. Product Data: For each type of product indicated. Include material details for each sign specified.
 - B. Shop Drawings: Show fabrication and installation details for signs.
 - 1. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
 - C. Samples for Initial Selection: Manufacturer's color charts consisting of actual units or sections of units showing the full range of colors available.
 - D. Samples for Verification: For each product and for the full range of color, texture, and sign material indicated.
 - E. Sign Schedule: As indicated.
 - F. Qualification Data: For Installer.
 - G. Maintenance Data: Submit maintenance data for installed products, including precautions against harmful cleaning materials and methods.
 - H. Warranty: Special warranty specified in this Section.
- 1.3 QUALITY ASSURANCE
 - A. Installer Qualifications: Fabricator of products.
 - B. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate products performance.
 - C. Source Limitations for Signs: Obtain each sign type indicated from one source from a single manufacturer.
 - D. Regulatory Requirements: Comply with applicable provisions in ADA-ABA Accessibility Guidelines, ICC/ANSI A117.1, Life and Safety regulations in accordance with Local Code Authority.
- 1.4 PROJECT CONDITIONS
 - A. Field Measurements: Verify sizes and mounting heights by field measurements before fabrication and indicate measurements on Shop Drawings.

1.5 COORDINATION

- A. Coordinate placement of anchorage devices with templates for installing signs.

1.6 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to re- pair or replace components of signs that fail in materials or workmanship within speci- fied warranty period.

1. Warranty Period: One year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Sign Material: Aluminum framed backlit display panels.
- B. Wayfinding Displays:
1. Size: As indicated on drawings.
 2. Frame Style: As indicated on drawings.
 3. Mounting Method: Cable Mount

2.2 Wayfinding DISPLAYS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Fast Signs
 2. Trio Displays
 3. Cyber Lights Inc.

2.3 FABRICATION

- A. General:
1. General: Comply with requirements indicated for materials, thicknesses, finish- es, colors, designs, shapes, sizes, and details of construction.
 2. Design, fabricate, and install sign assemblies to prevent buckling, opening up of joints, and over- stressing of welds and fasteners.
 3. Mill joints to a tight, hairline fit. Form joints exposed to the weather to exclude water penetration.
 4. Conceal fasteners if possible; otherwise, locate fasteners where they will be in- conspicuous.
 5. Create signage to required sizes and layout. Comply with requirements indicated for design, dimensions, finish, color, and details of construction.

2.4 ACCESSORIES

- A. Anchors and Inserts: Provide anchors and inserts for installations as required.

2.5 FINISHES, GENERAL

- A. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.
- B. Verify that items, including anchor inserts, are sized and located to accommodate signs.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Locate signs and accessories where indicated, using mounting methods of types described and complying with manufacturer's written instructions.
- B. Install signs level, plumb, and at heights indicated, with sign surfaces free of distortion and other defects in appearance.
- C. Comply with sign manufacturer's written instructions except where more stringent requirements apply.
 - 1. Mechanical Fasteners: Use nonremovable mechanical fasteners placed through predrilled holes. Attach signs with fasteners and anchors suitable for secure attachment to substrate as recommended in writing by sign manufacturer.

3.3 CLEANING AND PROTECTION

- A. After installation, clean soiled sign surfaces according to manufacturer's written instructions. Protect signs from damage until acceptance by Owner.

END OF SECTION 101470