SECTION 10 14 16 - PLAQUES

PART 1 - GENERAL

1.1 SECTION INCLUDES
1. Plaques

1.2 DEFINITIONS
A. Accessible/ ADA: In accordance with U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) Accessibilities Guidelines for Buildings and Faclities.

1.3 COORDINATION
A. Coordinate all signage elements, including work schedule and installation with general contractor.

1.4 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Shop Drawings: For plaques.
1. Include fabrication and installation details and attachments to other work.
2. Show plaque mounting heights, locations of supplementary supports to be provided by others, and accessories.
3. Show message list, typestyles, graphic elements, and layout for each sign at least half size.
4. Submit electronic and hard copy files for approval.
5. Shop drawings shall be approved prior to fabrication.
6. All shop drawings and router files shall become property of the Owner.
C. Samples for Initial Selection: For each type of plaque, exposed component, and exposed finish.
1. Include representative Samples of available typestyles and graphic symbols.
D. Samples for Verification: For each type of plaque showing all components and with the required finishes, in manufacturer's standard size unless otherwise indicated and as follows:
1. Plaques: Full-size Sample.
2. Exposed Accessories: Full-size Sample of each accessory type.
E. Plaque Schedule: Use same designations specified or indicated on Drawings or in a plaque or sign schedule.
F. Mockups: One First Article prototype for viewing and revising by the Owner for each plaque type.

1.5 INFORMATIONAL SUBMITTALS
A. Qualification Data: *Submit resume and work examples with bid.*
1. Engineering services: Provide details of engineering capabilities.
2. Project Management: Provide proof of dedicated project manager.
B. Sample Warranty: *For special warranty*

1.6 CLOSEOUT SUBMITTALS
A. Maintenance Data: For plaques to include in maintenance manuals.
B. As-built drawings: For final sign configurations and locations.
C. Router Files: For all plaques manufactured.
D. Photos: Provide for all installed work.
E. Project Closeout Book: Place all information in 3-ring binder labeled with project name. Provide 2 hard copies and additional digital copy.

1.7 QUALITY ASSURANCE
A. Signage Company Qualifications: An entity that employs installers and supervisors who are trained and competent in the signage industry.

1.8 FIELD CONDITIONS
A. Field Surveys to confirm actual field conditions for all interior work prior to fabrication.
1. Verify that as-built conditions match the design documents.
2. Any discrepancies in the drawings from field measurements shall be reported to the Owner and coordinated prior to fabrication.

1.9 WARRANTY
A. Special Warranty: Manufacturer agrees to repair or replace components of plaques that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
a. Deterioration of finishes beyond normal weathering.
b. Deterioration of embedded graphic image.
2. The finished product will be free of defects in materials and workmanship.
3. Warranty Period: One year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PLAQUES, GENERAL
A. Regional Materials: Plaques shall be manufactured within 500 miles (800 km) of Project site.

2.2 PERFORMANCE REQUIREMENTS
A. Accessibility Standard: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA, Accessibility Guidelines for Buildings and Facilities and ICC A117.1 for signs.

2.3 PLAQUES
A. Acrylic Plaque: Plaque with background, border, and characters having uniform faces, sharp corners, and precisely formed lines and profiles; and as follows:
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on drawings by Dimensional Innovations; or comparable product by one of the following:
a. *TBD by Architect/ Owner*
3. Plaque Material: Acrylic
4. Plaque Thickness: 0.25 inch (6.35 mm) or as shown on the drawings.
5. Finishes:
a. Integral Metal Finish: Not Used.
b. Integral Aluminum Finish: Not Used.
c. Baked-Enamel or Powder-Coat Finish: Not Used.
d. Overcoat: Manufacturer's standard baked-on clear coating
6. Background: Non-glare acrylic painted as indicated.
7. Mounting: Countersunk flathead through fasteners.
8. Text and Typeface: Accessible raised characters and Braille, Futura Md BT Medium. Finish raised characters to contrast with background color, and finish Braille to match background color.

2.4 MATERIALS
A. Aluminum Castings: Not Used.
B. Aluminum Sheet and Plate: Not Used.
C. Aluminum Extrusions: Not Used.
D. Brass Castings: Not Used.
E. Brass Sheet (Yellow Brass): Not Used.
F. Bronze Castings: Not Used.
G. Bronze Plate: Not Used.
H. Copper Sheet: Not Used.
I. Stainless-Steel Sheet: Not Used.
J. Zinc Castings: Not Used.
K. Zinc Sheet: Not Used.
L. Acrylic Sheet: ASTM D 4802, category as standard with manufacturer for each sign, Type UVF (UV filtering).
M. Paints and Coatings for Sheet Materials: Inks, dyes, and paints that are recommended by manufacturer for optimum adherence to surface and are UV and water resistant for [illegible] exposure [illegible].

2.5 ACCESSORIES
A. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of plaques, noncorrosive and compatible with each material joined, and complying with the following:
1. Use concealed fasteners and anchors unless indicated to be exposed.
2. For exterior exposure, furnish nonferrous-metal devices unless otherwise indicated.
3. Exposed Metal-Fastener Components, General:
a. Fabricated from same basic metal and finish of fastened metal unless otherwise indicated.
4. Fastener Heads: For nonstructural connections, use oval countersunk screws and bolts with [illegible]-resistant [illegible] unless otherwise indicatedPlaque Mounting [illegible]ers:
a. Concealed Studs: Concealed (blind), threaded studs welded or brazed to back [illegible], screwed into [illegible] of plaque, or [illegible]wed into [illegible] lugs cast integrally into back of plaque, unless otherwise indicated.
b. Through Fasteners: Exposed metal fasteners matching plaque finish, with type of hea[illegible]cated, install[illegible] predrilled holes.
B. Adhesives: As recommended by plaque manufacturer and with a VOC content of 70 g/L or less for [illegible] used [illegible] the weatherproofing system and applied on-site when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
C. Adhesives: As recommended by plaque manufacturer and that comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
D. Two-Face Tape: Manufacturer's standard high-bond, foam-core tape, 0.045 inch (1.14 mm) thick, with adhesive on both sides.
E. Bituminous Paint: Not Used.

2.6 FABRICATION
A. General: Provide manufacturer's standard plaques according to requirements indicated.
1. Preassemble plaques in the shop to greatest extent [illegible]. [illegible]assemble plaques only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation; apply markings in locations concealed from view after final assembly.
2. Mill joints to a tight, hairline [illegible]. [illegible] assemblies and joints exposed to weather [illegible] resist water penetration and retention.
3. Comply with AWS for recomme[illegible] practices in welding and brazing. Provide [illegible] and brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed connections of flux, and dress exposed and contact surfaces.
4. Conceal connections if possible; [illegible]wise, locate connections where they are in[illegible]spicuous.
5. Provide rebates, lugs, and brackets necessary to [illegible]mble components and to attach to existing work. Drill and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match plaque finish.
6. Castings: Fabricate castings free of w[illegible], cracks, [illegible], sand holes, and other defects that impair appearance or strength. Grind, wire brush, sandblast, and buff castings to remove seams, gate marks, casting flash, and other casting marks before finishing.

B. Brackets: Fabri[illegible] brackets, fittings, and hardware for bracket-mounted plaques to suit plaque construction and mounting conditions indicated. Modify manufacturer's standard brackets as required.
1. Alumi[illegible] Brackets: Fa[illegible] finish brackets [illegible]ked-enamel or powder-coat finish to match sign-background color unless otherwise indicated.
2. St[illegible]eel Brackets: [illegible] finish brackets to match sign background finish unless otherwise indicated.

2.7 [illegible]AL FINIS[illegible]QUIREMENTS
A. Pr[illegible]echanical [illegible] on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
B. App[illegible]e of Finishe[illegible]: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
C. Direc[illegible] Finishes: Run grain with long dimension of each piece and perpendicular to long dimension of finished trim or border surface unless otherwise indicated.
D. Orga[illegible], Anodic, and Chemically Produced Finishes: Apply to formed metal after fabrication but before applying contrasting polished finishes on raised features unless otherwise indicated.

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 plaque work.
B. Verify that plaque-support surfaces are within tolerances to accommodate plaques without gaps or irregularities between backs of plaques and support surfaces unless otherwise indicated.
C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION
A. General: Install plaques using mounting methods indicated and according to manufacturer's written instructions.
1. Install plaques level, plumb, true to line, and at locations and heights indicated, with plaque surfaces free of distortion and other defects in appearance.
2. Install plaques so they do not protrude or obstruct according to the accessibility standard.
3. Before installation, verify that plaque surfaces are clean and free of materials or debris that would impair installation.
4. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.
5. Responsible for all services, including all labor, materials and equipment for the complete fabrication and installation of the product to meet the schedule in the contract documents.
B. Plaques Used for Room Identification and Other Accessible Plaques: Install in locations on walls according to accessibility standard.
C. Mounting Methods:
1. Concealed Studs: Using a template, drill holes in substrate aligning with studs on back of plaque. Remove loose debris from hole and substrate surface.
a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place plaque in position and push until flush to surface, embedding studs in holes. Temporarily support plaque in position until adhesive fully sets.
b. Thin or Hollow Surfaces: Place plaque in position and flush to surface, install washers and nuts on studs projecting through opposite side of surface, and tighten.
2. Through Fasteners: Drill holes in substrate using predrilled holes in plaque as template. Countersink holes in plaque if required. Place plaque in position and flush to surface. Install through fasteners and tighten.
3. Brackets: Remove loose debris from substrate surface and install bracket supports in position so that plaque is correctly located and aligned.
4. Adhesive: Clean bond-breaking materials from substrate surface and remove loose debris. Apply linear beads or spots of adhesive symmetrically to back of plaque and of suitable quantity to support weight of plaque after cure without slippage. Keep adhesive away from edges to prevent adhesive extrusion as plaque is applied and to prevent visibility of cured adhesive at plaque edges. Place plaque in position, and push to engage adhesive. Temporarily support plaque in position until adhesive fully sets.
5. Two-Face Tape: Clean bond-breaking materials from substrate surface and remove loose debris. Apply tape strips symmetrically to back of plaque and of suitable quantity to support weight of plaque without slippage. Keep strips away from edges to prevent visibility at plaque edges. Place plaque in position, and push to engage tape adhesive.
6. 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 direct mounting methods are impractical. Attach plate with fasteners and anchors suitable for secure attachment to substrate. Attach plaques to plate using method specified above.

3.3 ADJUSTING AND CLEANING
A. Remove and replace damaged or deformed plaques and plaques that do not comply with specified requirements. Replace plaques with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or si[illegible]r repair procedures.
B. Remove temporary protective coverings and strippable films as plaques are installed.
C. On completion of installation, clean exposed surfaces of plaques according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain plaques in a clean condition during construction and protect [illegible] damage until a[illegible]tance by Owner.

3.4 CODE REQUIREMENTS
A. Responsible for all permit drawings as well as permit/ procurement fees or any variance processes required.
B. Responsible for ADA signage compliance as well as city code requirements.

END OF SECTION 10 14 16

SECTION 10 14 19 - DIMENSIONAL LETTER SIGNAGE

PART 1 - GENERAL

1.1 SECTION INCLUDES
1. Cutout dimensional characters.
2. Fabricated channel dimensional characters.
3. Illuminated, fabricated channel dimensional characters.

1.2 DEFINITIONS
A. Illuminated: Illuminated by lighting source integrally constructed as part of the sign unit.

1.3 COORDINATION
A. Furnish templates for placement of electrical service embedded in permanent construction by others.
B. Coordinate with general contractor on power requirements, electrical connections and blocking for all signage elements.
C. Coordinate all signage elements, including work schedule and installation with general contractor.

1.4 ACTION SUBMITTALS
A. Product Data: For each type of product
B. Shop Drawings: For dimensional letter signs.
1. Include fabrication and installation details and [illegible] to other work.
2. Show sign mounting heights, locations of supplementary [illegible] to be provided by [illegible] accessories.
3. Show message list, typestyles, graphic elements, and layout [illegible] sign at least half size.
4. Show locations of electrical service connections.
5. Include diagrams for [illegible]er, signal, and control wiring.
6. Submit electronic [illegible]opy files for approval.
7. Shop drawings shall be [illegible] prior to fabrication.
8. All [illegible] drawings and router [illegible] become property of the Owner.
C. Samples for [illegible] Selection: For each [illegible] sign assembly, exposed component, and exposed finish.
1. Include repr[illegible]tive Samples of availa[illegible]styles and graphic symbols.
D. Samples for Verification: [illegible] each type of sign [illegible]ly showing all components and with the required finishes, in manufacturer's standard size unless otherwise indicated and as follows:
1. Dimensional Characters: [illegible] Sample of each type of dimensional character.
2. Exposed Accessories: [illegible] Sample of each accessory type.
E. Sign Schedule: Use same designations specified or indicated on Drawings or in a sign schedule.
F. Delegated-Design Submittal: For all signs as required by local codes.
1. Include structural analysis calculations and drawings for signs indicated to comply with design loads; signed and sealed by the qualified professional engineer responsible for their preparation.
G. Mockups: One First Article prototype for viewing and revising by the Owner for each sign type. Mockup can be used for final installation if approved by owner

1.5 INFORMATIONAL SUBMITTALS
A. Qualification Data: *Submit resume and work examples with bid.*
1. Engineering services: Provide details of engineering capabilities.
2. Project Management: Provide proof of dedicated project manager.
B. Sample Warranty: For special warranty.

1.6 CLOSEOUT SUBMITTALS
A. Maintenance Data: For signs to include in maintenance manuals.
B. As-built drawings: For final sign configurations and locations.
C. Router Files: For all signs manufactured.
D. Photos: Provide for all installed work.
E. Project Closeout Book: Place all information in 3-ring binder labeled with project name. Provide 2 hard copies and additional digital copy.

1.7 QUALITY ASSURANCE
A. Signage Company Qualifications: An entity that employs installers and supervisors who are trained and competent in the sign industry.

1.8 FIELD CONDITIONS
A. Field Measurements: Verify locations of electrical service embedded in permanent construction by other installers by field measurements before fabrication, and indicate measurements on Shop Drawings.
B. Field Surveys to confirm actual field conditions is required for all interior and exterior work prior to fabrication.
1. Verify that as-built conditions match design documents.
2. Any discrepancies in the drawings from field measurements shall be reported to the Owner and coordinated prior to fabrication.

1.9 WARRANTY
A. Special Warranty: 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 finishes beyond normal weathering.
b. Separation or delamination of sheet materials and components.
2. The finished product will be free of defects in materials and workmanship.
3. Warranty Period: One year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 DIMENSIONAL LETTER SIGNS, GENERAL
A. Regional Materials: Dimensional letter signs shall be manufactured within 500 miles (800 km) of Project site.

2.2 PERFORMANCE REQUIREMENTS
A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design sign structure and anchorage of dimensional character sign type(s) to withstand design loads as indicated on Drawings.
B. Thermal Movements: For exterior fabricated channel dimensional characters, allow for thermal movements from ambient and surface temperature changes.
1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.3 DIMENSIONAL CHARACTERS
A. Cutout Characters: Characters with uniform faces; square-cut, smooth edges; precisely formed lines and profiles; and as follows:
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
Retain "Basis-of-Design Product" Subparagraph and list of manufacturers below to identify a specific product or a comparable product from manufacturers listed. Retain option and delete insert note if manufacturer's name and model number are indicated on Drawings.
2. Basis-of-Design Product: Subject to compliance with requirements, provide flat cut out characters by Dimensional Innovations or comparable product by one of the following:
a. *TBD By Architect/ Owner*
3. Character Material: Sheet Closed Cell PVC and/ or acrylic as indicated in drawings.
4. Character Height: As indicated in the drawings.
5. Thickness: As indicated in the drawings.
6. Finishes:
a. Integral Metal Finish: Not Used.
b. Integral Aluminum Finish: Not Used.
c. Integral Stainless-Steel Finish: Not Used.
d. Integral Acrylic Color: As indicated by manufacturer's designation.
e. Baked-Enamel or Powder-Coat Finish: Manufacturer's standard, in color as indicated
f. Overcoat: Manufacturer's standard baked-on clear coating.
g. Painted Edges: Paint edges of acrylic characters with laminated metal facing as recommended in writing by manufacturer.
h. Paint: Matthews Paint products shall be used where painting is required.

SIGNAGE SUPPLIED BY OWNER

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NOT FOR CONSTRUCTION

LICENSE EXPERATION DATE: 00/00/0000
SIGNATURE DATE: 00/00/0000

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SHEET LEGEND

G000's	GENERAL INFORMATION & SCOPE OF WORK
N100's	EGRESS / ADA PLANS & DETAILS
AD100's	DEMOLITION FLOOR & CEILING PLANS
AD200's	DEMOLITION ELEVATIONS
A100's	FLOOR PLANS & CEILING PLANS
A200's	EXTERIOR & INTERIOR ELEVATIONS
A400's	ENLARGED PLANS
A500's	EXTERIOR & INTERIOR DETAILS
A600's	DOOR SCHEDULE, DOOR DETAILS, FINISH SCHEDULE, FINISH PLANS
Q100's	AUDITORIUM SIGHT LINE SECTIONS
Q120's	AUDITORIUM SEATING PLAN
S's	STRUCTURAL
M's	MECHANICAL
P's	PLUMBING
E's	ELECTRICAL
WF's	WAYFINDING DETAILS
FS's	CASEWORK & EQUIPMENT

AMC MADISON YARDS 8

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REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 05/22/2018

KEY PLAN:

SHEET TITLE:
SIGNAGE SPECS

SHEET NUMBER:
WF001