

**SECTION 009111.14 - ADDENDUM NUMBER 4**

**PARTICULARS**

- 1.1 **DATE: DECEMBER 30, 2024**
- 1.2 **PROJECT: FULTON CO. PUBLIC LIBRARY: ADDITION, RENOVATIONS & SITE IMPROVEMENTS TO: AUBBEE, FULTON & ROCHESTER LIBRARIES**
- 1.3 **PROJECT NUMBER: 24029**
- 1.4 **OWNER: FULTON COUNTY PUBLIC LIBRARY, 320 W. 7TH STREET, ROCHESTER, IN 46975**
- 1.5 **ARCHITECT: ODLE MCGUIRE SHOOK MATTHEW R. MAYOL #IN19900090**



*Matthew R. Mayol*

**TO: PROSPECTIVE BIDDERS:**

- 2.1 **THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND MODIFIES THE ORIGINAL BIDDING DOCUMENTS DATED NOVEMBER 15, 2024, WITH AMENDMENTS AND ADDITIONS NOTED BELOW.**
- 2.2 **ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE BID FORM. FAILURE TO DO SO MAY DISQUALIFY THE BIDDER.**
- 2.3 **THIS ADDENDUM CONSISTS OF 23 PAGES AND NO DRAWINGS:**
- 2.4 **GENERAL:**
  - A. A Plan Holder List has been included in this Addendum upon Bidder request and is for reference only.
  - B. Bidders questions are as follows:
    1. Q: Manufacturer "Henry Company; Air Bloc 06" – Should this be Air-Bloc 16?
      - a. A: Yes, '16' is the correct system.
    2. Q: Membrane Vapor Permeance: Not to exceed 0.1 perm; ASTM E 96. - THIS IS REFLECTING IMPERMEABLE, WHICH ALL THE PRODUCTS ARE REFLECTING THAT. BUT THE ROCHESTER DRAWINGS ON PAGE A401 WALL SECTIONS; SECTION 2; EXTERIOR MASONRY VENEER SECTION IS STATING PERMEABLE WATER-RESISTIVE BARRIER. Please clarify.
      - a. A: Impermeable is correct. This Addendum will revise the Rochester Library Detail 2/A401 note to read "impermeable" in lieu of "permeable".

3. Q: Is the new exterior brick expected to be full depth brick or thin brick veneer? Drawings show full depth, but seems the Specifications are asking for thin brick veneer. Please clarify.
  - a. A: The design intent at Rochester Library is for full depth brick. The thin brick is for Fulton Branch for the Vestibule Addition. However, if the Contractor elects to provide a "Voluntary Deduct Alternate" for thin brick at Rochester in lieu of full depth brick that solution would be taken into consideration once bids are received. Contractor should be specific in regard to the water penetration resistance of the thin-brick veneer assembly being proposed.
4. Q: DA101 calls for room X118 to have no work performed, AI101 calls for new flooring, base, and paint. Please clarify scope in this room.
  - a. A: The design intent is for new flooring and base in STORAGE X118 so this Addendum will change Demo Note 1 To Demo Note 9 - REMOVE FLOORING AND BASE THIS AREA. PREP FOR NEW WORK.
5. Q: Can you please provide info for spec section 323119 for 6' fence for the Rochester Alt. Bid? It is not part of the current construction documents.
  - a. A: Please reference Specification Section 323119-Decorative Metal Fences and Gates included in this Addendum.
6. Q: Will they be submitting more details for the illuminated sign, EMC sign. I assume they want RGB color scheme, not Red or Yellow graphic colors. Also I need the pixel pitch that they want.. like 16mm, 8mm, 19mm, or 10mm?
  - a. A: Please reference Specification Section 101426-Post and Panel-Pylon Signage included in this Addendum. The design intent is RGB and 0.24 inch (6mm) or similar.
7. Q: Can you provide additional detail for the Fulton Branch Exterior Illuminated panel sign in 101422.
  - a. A: Yes, upon further review, the Library Logo description as specified in 101422-Panel Signs Paragraph 2.3 A 2 will be more accurately described in this Addendum.
8. Q: I had one of our casework suppliers reach out to me earlier this morning and notified me that the Solid Surface that was chosen on Aubbee only comes in 1/2" thickness, not 1/4" thick as is shown on the finish schedule and the cross section on A401. Can you please advise?
  - a. A: The Architect will need to verify if we have outdated Wilsonart materials in our Library. Consequently the design intent is for 1/4" thickness solid surface on the Lavatory so please revise SS-1 Color on the Finish Legend to read "FULL RANGE OF COLORS"
9. Q: Visual Display is listed in the spec's, but no obvious callouts on the plans. Are we missing anything, or is that not part of the scope on this project?

- a. A: Correct. The Visual Display components have been moved to the Furniture & Equipment Package and will be provided by Others. Spec Section 101100 Visual Display Boards is deleted in this Addendum.
- 10. Q: Restroom Accessories Item 3B Paper Towel and Dispenser is located twice in each restroom. Is that correct?
  - a. A: Womens X104 and Mens X105 only require one B3 Paper Towel and Waste Dispenser. The two B3s on the wall above the Lavatory are deleted in this Addendum.

**CHANGES TO PRIOR ADDENDA: NONE**

**CHANGES TO THE PROJECT MANUAL - SPECIFICATIONS:**

**4.1 SECTION 000110- TABLE OF CONTENTS**

- A. Replace in it's entirety to include deleted and added Specification Sections as follows:
  - 1. 101100-Visual Display Boards. This section has been deleted.
  - 2. 101426 ADD.4-Post and Panel-Pylon Signage has been added.
  - 3. 321413 ADD.3-Permeable Interlocking Concrete Unit Pavement was added previously.
  - 4. 323119 ADD.4-Decorative Metal Fences & Gates has been added.

**4.2 SECTION 072726 - FLUID-APPLIED MEMBRANE AIR BARRIER**

- A. Revise Manufacturer "Henry Company; Air Bloc 06" revise to read "Henry Air-Bloc 16". The deisgn intent is for a fluid-applied, vapor-impermeable air and water barrier when applied to above-grade wall assemblies.

**4.3 SECTION 101100-VISUAL DISPLAY BOARDS**

- A. Delete this Section in it's entirety.

**4.4 SECTION 101422-PANEL SIGNS**

- A. Revise Paragraph 2.3 A 2 a as follows:
  - 1. 42" x 42" x 3" +/- background "cabinet".
  - 2. Routed aluminum face painted white (opaque).
  - 3. Push-thru acrylic letters with translucent vinyl faces in specified logo colors.
  - 4. Internal illumination to provide lighting through the acrylic logo and letters.
  - 5. "Halo" lighting behind cabinet.

**CHANGES TO DRAWINGS:**

**5.1 DRAWING AUBBEE BRANCH DA101**

- A. In STORAGE X118 revise Demo Note 1 to Demo Note 9 - REMOVE FLOORING AND BASE THIS AREA. PREP FOR NEW WORK.

**5.2 DRAWING AUBBEE BRANCH A401**

- A. Detail 1 / A401 ENLARGED RESTROOM PLAN
  - 1. Delete the 'B3' Paper Towel and Waste Receptacle symbols shown on the east wall above the Lavatory in WOMENS X104 and MENS X105.

2. For clarification, only one B3 is required in each room so the WOMENS X104 and MENS X105 'B3' symbols shown located between the Lavatory and the Water Closet are correct.

**5.3 DRAWING AUBBEE BRANCH AI101**

- A. Revise the SS-1 COLOR in the FINISH LEGEND to read "FULL RANGE OF COLORS".

**5.4 DRAWING ROCHESTER LIBRARY: A401**

- A. Detail 2/A401 EXT. MASONRY VENEER SECTION

1. Replace the word "PERMEABLE" with "IMPERMEABLE" to match the Specifications and realize the design intent.

**END OF SECTION**

## PLAN HOLDER LIST EASTERN ENGINEERING

Information	Plan Holders	Plans	Shipping Information	Addenda
<b>Plan Holder List</b> <a href="#">Show Classifications</a>				
Company Information ▲	CSI Codes	Contact Information		
Buildcentral.com 200 W. Madison Chicago, IL 60606	General	Chrissie Magui (866) 316-5300		
Central Indiana Hardware (Indy) 9190 Corporation Dr Indianapolis, IN 46256	08 00 00-Openings (i.e. glass, aluminum...)	MARK FRENCH (317) 558-5700		
CME General Contractor 7235 Vicksburg Pike Fort Wayne, IN 46804	00 00 00-General Contractor	Michelle Shoaf (260) 745-0251		
ConstructConnect 3825 Edwards Rd. Ste 800 Cincinnati, OH 45209	01006 - Plan Rooms	Megan Anderson (800) 364-2059		
D.A. Dodd Inc. 14 E. Michigan St. Rolling Prairie, IN 46371	23 00 00-Heating, Ventilating, and Air Conditioning (HVAC)	Jacob Miller (219) 778-4302		
Dodge Construction Network 2860 S State Hwy 161 Suite 160 #501 Grand Prairie, TX 75052-7361	01006 - Plan Rooms	Jayalakshmi Loganathan (810) 639-0660		
Eastern Engineering - Ft. Wayne 1239 N. Wells Street Ft. Wayne, IN 46808	Plan Room	Trey Thompson (260) 426-3119		
Grove Excavating 30495-6 County Road 24 Osceola, IN 46561	Subcontractor	Kurt Evans (574) 361-5035		
Hamilton Hunter Builders Inc. 915 South Lafayette Street Fort Wayne, IN 46802	00 00 00-General Contractor	Janet Murray (260) 423-3577		
MACIAF 212 W Colfax Ave South Bend, IN 46601	Plan Room	Kate O'Brien (574) 289-7785		
McGuff Roofing Inc. (Huntington) 351 Lee Street Huntington, IN 46750	07 40 00-Roofing and Siding Panels	JR Kuzma (260) 356-1120		

Michael Kinder and Sons 5206 Decatur Road Fort Wayne, IN 46806	00 00 00-General Contractor	Brad Hauke (260) 744-4359
Michiana Contracting, Inc. 7843 Lilac Road Plymouth, IN 46563	26 00 00-Electrical	Ted Redinger (574) 936-8613
Odle McGuire Shook (OMS) 7222 N. Shadeland Ave. Suite 100 Indianapolis, IN 46250	Architect	Matthew Mayol (317) 842-0000
Quality Plumbing & Heating, Inc. 3515 North Reed Road Kokomo, IN 46901	Mechanical	Josh Wilken (765) 450-4008
R & C Fence, Inc. 3326 Engle Road Fort Wayne, IN 46809	32 31 00-Fences and Gates	Celeste Cross (260) 478-7667
R. Yoder Construction, Inc. 27453 CR 150 Nappanee, IN 46550	00 00 00-General Contractor	Kevin Yoder (574) 773-3502
RAB n/a Tampa, FL 33615	28 13 00-Access Control	Morgan Bell (866) 752-6482
Schenkel Construction Inc. 1120 Saint Marys Ave Fort Wayne, IN 46808	00 00 00-General Contractor	Eric Tyler (260) 459-2030
SRS DISTRIBUTION 5030 EXECUTIVE BLVD FORT WAYNE, IN 46808	07 00 00-Thermal and Moisture Protection	NATE SMITH (260) 484-4464

## PLAN HOLDER LIST REPROGRAPHICS

Set#	Company	Contact	Bid Type	Trade
	<b>Argent Concepts</b> 8610 E. 33rd Street Indianapolis, IN 46226	<b>Susie Weaver</b> p:(317)577-1776	Subcontractor	Architectural
	<b>BCI BuildCentral, Inc.</b> 321 N Clark St 500 Chicago, IL 60654	<b>Dennis Dioquino</b> p:(312)223-1600	Planroom	Communications
	<b>Blackmore Buckner Roofing</b> 9750 E 150th st Unit 1700 noblesville, IN 46060	<b>Ronald Gauldin</b> p:(317)263-0707	Subcontractor	General Trades
	<b>Bluebird Contractors LLC</b> 9558 e 325 n Lafayette, IN 47905	<b>Andrew Kennedy</b> p:(765)490-8559	Subcontractor	Site/Civil
	<b>Brown Brown General Contractors, Inc.</b> 124 S. Elkhart St. PO Box 487 Wakarusa, IN 46573	<b>Heather Doberenz</b> p:(574)862-2171	Prime Contractor	General Trades
	<b>ConstructConnect</b> 3825 Edwards Rd Suite 800 Cincinnati, OH 45209	<b>Plan Acquisition</b> p:(800)364-2059 f:(866)570-8187	Planroom	Planroom
	<b>Construction, Inc.</b> 4300 Armour Avenue, Bakersfield, California 93308, United St California , IN 93308	<b>Ali m</b> p:(661)833-8007	Other / Unknown	Other/Unknown
	<b>Core Mechanical</b> 118 S Harrison St. Atwood, IN 46502	<b>Timothy Popenfoose</b> p:(574)858-0242	Prime Contractor	Mechanical
	<b>Crane Environmental Services, LLC</b> 921 Keck Avenue Evansville, IN 47711	<b>Ellen Mullen</b> p:(812)909-0829 f:(812)909-0471	Subcontractor	Other/Unknown
	<b>DC Construction Services</b> 9598 Brookes Way Pendleton, IN 46064	<b>Kyle Thoden</b> p:(463)800-8757	Subcontractor	Site/Civil
	<b>DC Construction Services</b> 9598 Brookes Way Pendleton, IN 46064	<b>Kyle Thoden</b> p:(463)800-8757	Subcontractor	Site/Civil

<b>Hearn Construction, Inc.</b> 1221 E. Lincoln Rd Kokomo, IN 46902	<b>Mike Duncan</b> p:(765)452-2669	General Contractor	General Trades
<b>KPS Commercial Construction</b> 1318 E 236th St Arcadia, IN 46030	<b>Andrew Baker</b> p:(317)984-7764	General Contractor	General Trades
<b>Lee Company, Inc.</b> 27 S 12th Street Terre Haute, IN 47807	<b>Bob Senseman</b> p:(812)235-8155 f:(812)235-3587	Subcontractor	Equipment
<b>Michuda Construction Inc</b> 115 South Court Street Suite E Crown Point, IN 46307	<b>Scott McQuillan</b> p:(708)928-8916 f:(708)340-7833	General Contractor	General Trades
<b>Monroe Construction Group, llc</b> 110 E. Alto Road Kokomo, IN 46902	<b>Vanessa Monroe</b> p:(765)455-2993 f:(765)450-5913	General Contractor	General Trades
<b>Planhub</b> 1665 West Palm Beach Lakes Blvd, 950 West Palm Beach, FL 33401	<b>Nikki</b> p:(817)721-2510	Planroom	Planroom
<b>PWXPress</b> 1900 Coffeeport Rd, jacksonville, IN 32208	<b>Mary Miller</b> p:(408)676-8941	Prime Contractor	Planroom
<b>R. Yoder Construction, Inc</b> 27453 CR 150 P.O. Box 69 Nappanee, IN 46550	<b>Brad Yoder</b> p:(574)773-3502 f:(574)773-4941	Prime Contractor	General Trades
<b>South Central Roofing, Inc.</b> 1650 N State Rd 46 Columbus, IN 47203	<b>Amanda Williams</b> p:(812)579-5733 f:(812)579-5739	Other / Unknown	Architectural
<b>Trane</b> 8100 E 106th Street Suite 220 Fishers, IN 46038	<b>Nathan Allen</b> p:(317)255-8777	Subcontractor	Mechanical

PLAN HOLDER LIST AT ARC DOCUMENT SOLUTIONS





### Fulton County Public Libraries Planholders List

**Project Information**

Project Name : **Fulton County Public Libraries**  
Project Number : **SBD0\_Odle McGuire Shook**  
Project Type : **Public**

Project Hosted By :

**ARC - Indiana**  
**1003 E Summit Street Unit 3**  
**Crown Point Indiana USA 46307**  
**219-663-3758**

Recipient	Address	City	State	Zip	Phone (W)	Fax	Email
Company Name : <b>Gibson Lewis</b>							
Brian Palmer	1001 W 11th St	Mishawaka	Indiana	46544	574-259-8581	574-259-8481	bpalmer@gl.nceusa.com
Company Name : <b>R. Yoder Construction</b>							
Brad Yoder	27453 CO RD 150	Nappanee	Indiana	46550	574-773-3502	574-773-3502	brad@ryoderconstruction.com

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## **SECTION 101426 - POST AND PANEL-PYLON SIGNAGE**

### **PART 1 GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. Section Includes:
  - 1. Non-illuminated post-and-panel signs.
  - 2. Internally illuminated pylon signs.

#### **1.3 DEFINITIONS**

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

#### **1.4 COORDINATION**

- A. Furnish templates and tolerance information for placement of sign-anchorage devices embedded in permanent construction by other installers.
- B. Furnish templates for placement of electrical service embedded in permanent construction by other installers.

#### **1.5 ACTION SUBMITTALS**

- A. Product Data: For each type of product.
- B. Shop Drawings: For signage.
  - 1. Include fabrication and installation details and attachments to other work.
  - 2. Show sign mounting heights, structural frame details and locations of supplementary supports to be provided by other installers, and accessories.
  - 3. Show message list, typestyles, graphic elements, and layout.
  - 4. Show locations of electrical service connections.
  - 5. Include diagrams for power, signal, and control wiring.
- C. Samples for Initial Selection: For each type of sign assembly, exposed component, and exposed finish.
  - 1. Include representative Samples of available typestyles and graphic symbols.
- D. Samples for Verification: For each type of sign assembly, showing all components and with the required finish(es), in manufacturer's standard size unless otherwise indicated and as follows:
  - 1. Post-and-Panel Signs: Not less than 6 inches (152.4 mm) square.
  - 2. Pylon Signs: Not less than 6 inches (152.4 mm) square, including corner.
  - 3. Variable Component Materials: 6 inch (152.4 mm) square sample of each base material, character or graphic element, in each exposed color and finish not included in other Samples.
- E. Product Schedule: For post-and-panel and pylon signs. Use same designations indicated on Drawings or specified.

- F. Delegated-Design Submittal: For Monument/Pylon Sign
  - 1. Include structural analysis calculations for signs indicated to comply with design loads; signed and sealed by the qualified professional engineer responsible for their preparation.

## **1.6 CLOSEOUT SUBMITTALS**

- A. Maintenance Data: For signs to include in maintenance manuals.

## **1.7 QUALITY ASSURANCE**

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

## **1.8 FIELD CONDITIONS**

- A. Field Measurements: Verify locations of anchorage devices and electrical service embedded in permanent construction by other installers by field measurements before fabrication, and indicate measurements on Shop Drawings.

## **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. Deterioration of embedded graphic image.
    - c. Separation or delamination of sheet materials and components.
  - 2. Warranty Period: Five years from date of Substantial Completion.

## **PART 2 PRODUCTS**

### **2.1 PERFORMANCE REQUIREMENTS**

- A. Delegated Design: Engage a qualified professional engineer to design sign structure and anchorage of monument/pylon sign type according to structural performance requirements.
- B. Structural Performance: Signs and supporting elements shall withstand the effects of gravity and other loads within limits and under conditions indicated.
  - 1. Uniform Wind Load: Per Chapter 16-International Building Code.
  - 2. Concentrated Horizontal Load: Per Chapter 16-International Building Code.
  - 3. Other Design Load: Per Chapter 16-International Building Code.
  - 4. Uniform and concentrated loads need not be assumed to act concurrently.
- C. Thermal Movements: For exterior signs, allow for thermal movements from ambient and surface temperature changes.
  - 1. Temperature Change: 120 deg F , ambient; 180 degrees Fahrenheit (82.22 degrees Celsius), material surfaces.
- D. 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.

## 2.2 POST-AND-PANEL SIGNS

- A. Post-and-Panel Sign: Sign of hollow-box configuration; with smooth, uniform surfaces and support assembly; with message and characters having uniform faces, sharp corners, and precisely formed lines and profiles; and as follows:
1. Solid-Sheet Sign Panels, Returns, Returns, and Back: Aluminum sheet with finish specified in "Sign-Panel-Face Finish and Applied Graphics" Subparagraph and as follows:
    - a. Thickness: Manufacturer's standard for size of sign.
    - b. Surface-Applied Graphics: Applied vinyl film.
  2. Hollow-Box Sign Frame: Entire perimeter framed with formed-aluminum sheet or extruded-aluminum, hollow-box-type frame with vertical edges attached to supports with aluminum fittings. Close top and bottom edges of panels with manufacturer's standard welded seams or extrusions.
    - a. Hollow-Box Depth: 2 inches (50.8 mm).
    - b. Profile: Square.
    - c. Corner Condition in Elevation: Square.
    - d. Finish and Color: Dark bronze baked enamel or powder coat, as selected by Architect from manufacturer's full range.
  3. Sign-Frame Mounting: Between posts.
  4. Posts: Aluminum.
    - a. Shape: Square.
    - b. Size: 3-inch.
    - c. Installation Method: Direct burial.
    - d. Finish and Color: Baked enamel or powder coat to match sign-panel frame.
  5. Sign-Panel-Face Finish and Applied Graphics:
    - a. Baked-Enamel or Powder-Coat Finish and Graphics: Dark bronze color as selected by Architect from manufacturer's full range.
    - b. Overcoat: Manufacturer's standard baked-on clear coating.
  6. Text and Typeface: Typeface as selected by Architect from manufacturer's full range and variable content as scheduled.

## 2.3 PYLON SIGNS

- A. Pylon Sign: Sign with smooth, uniform surfaces and support assembly; with message and characters having uniform faces, sharp corners, and precisely formed lines and profiles; and as follows:
1. Illuminated Sign: Backlighting construction with LED lighting including transformers, insulators, and other accessories for operability, with provision for servicing and concealing connections to building electrical system. Use tight or sealed joint construction to prevent unintentional light leakage. Space lamps apart from each other and away from

- sign surfaces as needed to illuminate evenly.
- a. Power: As indicated on electrical Drawings.
  - b. Weeps: Provide weep holes to drain water at lowest part of exterior signs.
2. Solid-Sheet Sign Panels, Returns, and Back: Aluminum sheet with finish specified in "Sign-Panel-Face Finish and Applied Graphics" Subparagraph and as follows:
    - a. Thickness: Manufacturer's standard for size of sign.
    - b. Surface-Applied Graphics: Applied vinyl film.
    - c. Inset, Cutout Characters: Sign face routed to receive push-through acrylic graphics flush with the sign panel.
  3. Hollow-Box Sign Frame: Entire perimeter framed with formed-aluminum sheet or extruded-aluminum, hollow-box-type frame with vertical edges attached to supports with aluminum fittings. Close top and bottom edges of panels with manufacturer's standard welded seams or extrusions.
    - a. Hollow-Box Depth: See drawings and details.
    - b. Profile: See drawings and details.
    - c. Corner Condition in Elevation: See drawings and details
    - d. Finish and Color: Dark bronze baked enamel or powder coat as selected by Architect from manufacturer's full range.
  4. Pylon Structure: Internal frame.
    - a. Pylon Shape: See drawings and details. Frame shall support the pylon sign and shall be designed by the sign manufacturer to meet IBC structural requirements.
  5. Panel-Face Finish and Applied Graphics:
    - a. Baked-Enamel or Powder-Coat Finish and Graphics: Dark bronze panel color as selected by Architect from manufacturer's full range.
    - b. Photo-Image Graphics: Manufacturer's standard multicolor image.
    - c. Overcoat: Manufacturer's standard baked-on clear coating.
  6. Text and Typeface: Typeface as selected by Architect from manufacturer's full range and variable content as detailed.
- B. Digital Message Board: 73" x 36", 0.24 inch (6 mm), Digital, programmable LED sign. Single face sign that can be removed and maintained from the front. Digital sign face shall fit flush with the pylon box sign per drawings and details.

## **2.4 MATERIALS**

- A. Aluminum Sheet and Plate: ASTM B209, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.
- B. Aluminum Extrusions: ASTM B221, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.

- C. Stainless-Steel Sheet: ASTM A240/A240M or ASTM A666, Type 304 stretcher-leveled standard of flatness.
- D. Acrylic Sheet: ASTM D4802, category as standard with manufacturer for each sign, Type UVF (UV filtering).
- E. Polycarbonate Sheet: ASTM C1349, Appendix X1, Type II (coated, mar-resistant, UV-stabilized polycarbonate), with coating on both sides.
- F. Vinyl Film: UV-resistant vinyl film of nominal thickness indicated, with pressure-sensitive, permanent adhesive on back; die cut to form characters or images as indicated on Drawings and suitable for exterior applications.
- G. 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 colors and exposure indicated.

## **2.5 ACCESSORIES**

- A. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of signs, noncorrosive and compatible with each material joined, and complying with the following unless otherwise indicated:
  - 1. Use concealed fasteners and anchors unless indicated to be exposed.
  - 2. For exterior exposure, furnish nonferrous-metal or stainless-steel devices unless otherwise indicated.
  - 3. Exposed Metal-Fastener Components, General:
    - a. Fabricated from same basic metal and finish of fastened metal unless otherwise indicated.
    - b. Fastener Heads: For nonstructural connections, use flathead, countersunk screws and bolts with tamper-resistant, Allen-head, spanner-head unless otherwise indicated.
  - 4. Inserts: Furnish inserts to be set by other installers into concrete or masonry work.
- B. Post-Installed Anchors: Fastener systems with bolts of same basic metal as fastened metal, if visible, unless otherwise indicated; with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC01 as appropriate for the substrate.
  - 1. Uses: Securing signs with imposed loads to structure.
  - 2. Type: Torque-controlled, adhesive anchor, or adhesive anchor.
  - 3. Material for Exterior or Interior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 stainless-steel bolts, ASTM F59, and nuts, ASTM F594.
- C. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.
- D. Anchoring Materials:



1. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.
2. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound.
  - a. Water-Resistant Product: At exterior locations, provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended by manufacturer for exterior use.

## 2.6 FABRICATION

- A. General: Provide manufacturer's standard sign assemblies according to requirements indicated.
  1. Preassemble signs in the shop to greatest extent possible. Disassemble signs only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation, in locations concealed from view after final assembly.
  2. Mill joints to tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
  3. Comply with AWS for recommended practices in welding and brazing. Provide welds and brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed joints of flux, and dress exposed and contact surfaces.
  4. Conceal fasteners and anchors unless indicated to be exposed; locate exposed fasteners where they will be inconspicuous.
  5. Internally brace signs for stability, to meet structural performance loading without oil-canning or other surface deformation, and for securing fasteners.
- B. Sign Message Panels: Construct sign-panel surfaces to be smooth and to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch (1.59 mm) measured diagonally from corner to corner.
  1. 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. Increase panel thickness or reinforce with concealed stiffeners or backing materials as needed to produce surfaces without distortion, buckles, warp, or other surface deformations.
  3. Continuously weld joints and seams unless other methods are indicated; grind, fill, and dress welds to produce smooth, flush, exposed surfaces with welds invisible after final finishing.
- C. Post Fabrication: Fabricate posts designed for structural performance indicated and of lengths required for installation method indicated for each sign.

1. Aluminum Posts: Manufacturer's standard 0.125-inch-thick, extruded-aluminum tubing unless otherwise indicated, with brackets or slots to engage sign panels. Include post caps, fillers, spacers, junction boxes, access panels, reinforcement where required for loading conditions, and related accessories required for complete installation.
- D. Pylon Fabrication: Fabricate pylon signs with integral base consisting of channels, angles, plates, or other fittings. Design and fabricate pylon and anchorage for structural performance indicated. Detail anchorage so that water can drain out of assembly without obstruction. Drill holes in members for anchor-bolt connection. Provide anchor bolts of size required for connecting base to concrete foundations.
  1. Internal Frames: Manufacturer's standard internal steel framing system and anchorage, modified as required for Project requirements. Provide welded construction. Cut, drill, and tap units to receive hardware, bolts, and similar items.
    - a. Hot-dip galvanize steel framing system after fabrication according to ASTM A123/A123M.

## **2.7 GENERAL FINISH REQUIREMENTS**

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: 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. Directional Finishes: Run grain with long dimension of each piece and perpendicular to long dimension of finished trim or border surface unless otherwise indicated.
- D. Organic, Anodic, and Chemically Produced Finishes: Apply to formed metal after fabrication but before applying contrasting polished finishes on raised features unless otherwise indicated.

## **2.8 ALUMINUM FINISHES**

- A. Baked-Enamel or Powder-Coat Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils (0.0381 mm). Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

## **2.9 STAINLESS-STEEL FINISHES**

- A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

## **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 the Work.
- B. Verify that sign-support surfaces are within tolerances to accommodate signs.
- C. Verify that anchorage devices embedded in permanent construction are correctly sized and located to accommodate signs.

- D. Verify that electrical service is correctly sized and located to accommodate signs.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.2 INSTALLATION**

- A. General: Install signs using installation methods indicated and according to manufacturer's written instructions.
  - 1. Install signs level, plumb, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
  - 2. Install signs so they do not protrude or obstruct according to the accessibility standard.
  - 3. Before installation, verify that sign components 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.

### **3.3 INSTALLING POSTS**

- A. Vertical Tolerance: Set posts plumb within a tolerance of 1/16 inch (1.59 mm) in 3 feet (91.44 cm).
- B. Direct-Burial Method:
  - 1. Excavation: Excavate posthole to dimensions indicated. Reconstruct subgrade that is not firm, undisturbed, or compacted soil, or that is damaged by freezing temperatures, frost, rain, accumulated water, or construction activities by excavating an additional 12 inches (304.8 mm), backfilling with satisfactory soil or well-graded aggregate, and compacting to original subgrade elevation.
  - 2. Setting in Cast-in-Place Concrete: Set post in position, support to prevent movement, and place concrete in posthole as indicated on Drawings.

### **3.4 INSTALLING PYLONS**

- A. Vertical Tolerance: Install pylons plumb within a tolerance of 1/16 inch (1.59 mm) in 3 feet (91.44 cm).
- B. Attachment with Preset Anchor Bolts: Set pylon base in position over anchor bolts projecting from concrete foundation, shim and support pylon to prevent movement, place washers and nuts and tighten. Fill shim space with nonshrink, nonmetallic grout, mixed and placed to comply with manufacturer's written instructions.
- C. Attachment with Drilled-in-Place Anchor Bolts: Set pylon base in position over concrete foundation, locate and drill anchor holes, shim and support pylon to prevent movement, place washers and anchor bolts, and tighten. Fill shim space with nonshrink, nonmetallic grout, mixed and placed to comply with manufacturer's written instructions.

### **3.5 ADJUSTING AND CLEANING**

- A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes or components that cannot

be successfully repaired by finish touchup or similar minor repair procedures.

- B. Remove temporary protective coverings and strippable films as signs are installed.
- C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

**END OF SECTION**

## **SECTION 323119 - DECORATIVE METAL FENCES AND GATES**

### **PART 1 GENERAL**

#### **1.1 SECTION INCLUDES**

- A. Aluminum ornamental picket fence system.
- B. Aluminum ornamental gates.

#### **1.2 RELATED REQUIREMENTS**

#### **1.3 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Submit manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- C. Shop Drawings:
  - 1. Indicate plan layout, spacing of components, post foundation dimensions, hardware anchorage, gates, and schedule of components.

#### **1.4 QUALITY ASSURANCE**

- A. Erector Qualifications: Completion of ten equivalent installations

#### **1.5 DELIVERY, STORAGE AND HANDLING**

- A. Store materials in a manner to ensure proper ventilation and drainage. Protect against damage, weather, vandalism and theft.
- B. Deliver materials with manufacturer's tags and labels intact.

### **PART 2 PRODUCTS**

#### **2.1 MANUFACTURERS**

- A. Fences
  - 1. Aluminum ornamental fence:
    - a. Standard of Quality: Ovation 101 fence by Jerith Manufacturing Co. Inc. 2" line posts, 4" corner posts, 3/4" square pickets, 1 1/2" stringers, Exposed picket tops. All fence components shall be dark bronze.
    - b. Or Approved Equal.
  - 2. Aluminum ornamental gate:
    - a. Standard of Quality: Gate shall be Ovation 101 by Jerith Manufacturing Co. Inc. design to match picket fence panel, 6' height and width to match the measured opening between the two brick gate posts. 3/4" square pickets, 1 1/2" stringers, Exposed picket tops. Weld all gate components and brace to keep gates from racking. Hinges shall be ball bearing, heavy duty welded to gate and inserted into the brick column. Each gate shall have a hasp and latch; one side welded to gate and the other side inserted into the brick column. All gate components shall be dark

bronze.

3. Concrete & Non-ferrous Grout:
  - a. Concrete for post foundations and non-ferrous grout for installation on concrete walls shall be provided and installed by the fence contractor.

## **2.2 FENCES**

- A. Fences: Complete factory-fabricated system of posts and panels, accessories, fittings, and fasteners; finished with electrodeposition coating, and having the following performance characteristics:
- B. Electro-Deposition Coating: Multistage pretreatment/wash with zinc phosphate, followed by epoxy primer and acrylic topcoat.
  1. Total Coating Thickness: 2 mils (0.058 mm), minimum.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Verify that final grading in fence location is completed without irregularities which would interfere with fence installation.
- B. Do not commence work until unsatisfactory conditions have been corrected.
- C. Do not begin installation until substrates have been properly prepared.
- D. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### **3.2 PREPARATION**

- A. Measure and lay out complete fence line.
- B. Measure parallel to surface of ground.
- C. Locate and mark position of posts.
- D. Locate line posts at equal distance spacing, not exceeding 6-foot centers.
- E. Locate corner posts at positions where fence changes direction more than 10 degrees.
- F. Clean surfaces thoroughly prior to installation.

### **3.3 INSTALLATION**

- A. Posts in earth.
  1. Minimum post hole diameter three times outside post diameter or as shown on the drawings.
  2. Minimum post hole depth 3 in. below post bottom.
  3. Set post plumb to 1/4 in. in 10 ft.
  4. Fill hole with concrete to finish grade.
  5. Crown surface of concrete to slope away from post.
- B. Posts embedded in concrete walls.
  1. Install posts in core drilled holes in concrete.

2. Install posts plumb and fill holes around posts with non-ferrous grout that is compatible with aluminum posts. Protect cast stone coping from grout stains.
- C. Fence Panels
  1. Install panels between posts with manufacturer's approved stainless steel fasteners.
- D. Gates
  1. Install gates plumb and level. Grout hinge ends and latch into masonry column with non-ferrous grout.
- E. Install in accordance with manufacturer's instructions.
- F. Set fence posts in accordance with the manufacturer recommended spacing.

### **3.4 TOLERANCES**

- A. Maximum Variation From Plumb: 1/4 inch (6.3 mm).
- B. Maximum Offset From Indicated Position: 1 inch (25.4 mm).
- C. Minimum Distance from Property Line: 6 inches (152 mm).

### **3.5 ADJUSTMENT AND CLEAN UP**

- A. Tighten hardware, fasteners and accessories.
- B. Remove excess and waste materials from Project site.
- C. Clean jobsite of excess materials; scatter excess material from post hole excavations uniformly away from posts. Remove excess material if required.
- D. Clean fence with mild household detergent and clean water rinse well.

**END OF SECTION**