ADDENDUM NO. 2 - OUTLINE AND SUMMARY INFORMATION

Project Name: Parking Lot Signage Installation  
PPA No.: 18-2039  
Date: 5/16/19

To: All Plan Holders of Record

The Plans and Specification prepared by A&E Architects dated May 1, 2019, shall be clarified and added as follow. The bidder proposes to perform all the following clarifications or changes. It is understood that the Base Bid shall include any modification of Work or Additional Work that may be required by reason of the following change or clarifications.

The Bidders are to acknowledge the receipt of this Addendum by inserting its number and date into their Bid Forms. Failure to acknowledge may subject the Bidder to disqualification and rejection of the bid. This Addendum forms part of the Contract Documents as if bound therein and modifies them as follows:

I. AMENDMENTS TO THE PROJECT MANUAL

A. See attached.

II. ATTACHMENTS

A. …Addendum #2 A&E Architects
**Addendum**

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<tr>
<td>Date Issued:</td>
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<td>Project Name:</td>
<td>MSU Parking Lot Signage Installation Project</td>
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<td>PP#18-2039</td>
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<td>Prepared By:</td>
<td>Jared Dickerson</td>
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<td>Issued To:</td>
<td>Montana State University</td>
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**This Addendum consists of:**

**General Bid Items**

Reviewing is for conformance with the design concept of the project and compliance with the information given in the contract documents. Contractor is responsible for dimensions to be confirmed and correlated to the job site; for information that pertains solely to the fabrication processes or to techniques of construction; and for coordination of work of all trades.

**General Bid Items:**

**Invitation to Bid**

1. Added to Section 05500 1.1, Painting of Aluminum Material with Acrylic Polyurethane
2. Added to Section 05500 2.2, Acceptable Material Alternative metal (6061 alloy Tube Strength Aluminum 1/4” wall.
SECTION 055000 - METAL FABRICATIONS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Miscellaneous steel framing and supports.
   3. Added (Acrylic Polyurethane of Metals)

B. Related Requirements:
   1. Section 033000 "Cast-in-Place Concrete" for concrete.

1.2 ACTION SUBMITTALS

A. Product Data: For the following:
   1. Powder coating products.
   2. Powder coating preparation and operations.
   3. Added (Acrylic Polyurethane application)

B. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on exterior metal fabrications by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
   1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.2 METALS

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

B. Aluminum 1/8" Plate and sheet Aluminum Extrusions: ASTM B221 & Aluminum Extrusions: ASTM B221 - Acceptable material alternative (6061 Alloy Tube Strength Aluminum ¼" wall)

C. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.

D. Steel Tubing: ASTM A 500/A 500M, cold-formed steel tubing.
E. Steel Pipe: ASTM A 53/A 53M, Standard Weight (Schedule 40) unless otherwise indicated.

2.3 MISCELLANEOUS MATERIALS

A. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat.
   1. Use primer containing pigments that make it easily distinguishable from zinc-rich primer.
   2. Primer to be compatible with powder coating products and installation methods described below.

B. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187/D 1187M.

2.4 FABRICATION, GENERAL

A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Use connections that maintain structural value of joined pieces.

B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges. Remove sharp or rough areas on exposed surfaces.

C. Weld corners and seams continuously to comply with the following:
   1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
   2. Obtain fusion without undercut or overlap.
   3. Remove welding flux immediately.
   4. At exposed connections, finish exposed welds and surfaces smooth and blended.

D. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Locate joints where least conspicuous.

E. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

F. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors not less than 8 inches from ends and corners of units and 24 inches o.c.

2.5 STEEL FRAMING AND SUPPORTS FOR SIGNAGE

A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.

B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.

Exposed steel to be powder coated before delivery to the site.
2.6 FINISHES, GENERAL
   A. Revised Language to (Finish metal fabrications after assembly and prior to delivery to site).

2.7 STEEL AND IRON FINISHES
   A. Powder coat process shall be suitable for extreme exterior exposure as appropriate to the campus location.
      1. After fabrication, the steel welds shall be brushed free of weld splatter and ground smooth.
      2. Steel shall be degreased and pretreated as recommended by the powder coating procedures and shall be free of rust and mill scale.
      3. Steel shall be primed (80 um) with a compatible primer and powder coated (80um) with a top coat.
      4. After powder coating, steel shall be wrapped and protected against scratching and damage to powder coating during delivery and installation.
   B. Added (Acrylic Polyurethane shall be applied per manufacturer instruction and be suitable for extreme exterior exposure as appropriate to the campus location.

PART 3 - EXECUTION
3.1 INSTALLATION, GENERAL
   A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

   B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

   C. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

3.2 ADJUSTING AND CLEANING
   A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

END OF SECTION 055000