

ADDENDUM

Addendum No: 001
Date: 07/3/2023

Project: Curry County Livestock Pavilion
1900 E Brady Ave
Clovis, NM 87101

Project No: 22-0003

From: Formative Architecture
209 Gold Ave SW
Albuquerque, NM 87102

To: All Prospective Bidders and Plan Holders



This Addendum forms a part of the Contract Documents for the aforementioned project issued by Formative Architecture dated 06/09/2023 which supersedes and supplements with additions, deletions, clarifications or corrections as indicated. All other provisions of the Contract Documents shall remain unchanged. Bidders shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form; failure to do so may subject bidder to disqualification.

This addendum consists of **Twenty-Nine (29)** 8.5 x 11 pages.

1. RFB REQUIREMENTS:

1.1. RFB DEADLINE AND ELECTRONIC SUBMISSION REMAIN UNCHANGED

1.2. Document 00 1116, INVITATION TO BID

1.2.1. Page 4, Mandatory Pre-Bid Meeting

Refer to the attached "Pre-Bid Meeting Attendance Form" dated June 23, 2023.

1.2.2. Page 8, Project Contacts

Project contact shall be updated. Any questions regarding this Invitation to Bid must be submitted to the Finance Director/Chief Procurement Officer listed below:

Troy Hall

Curry County Finance Director/Chief Procurement Officer

417 Gidding Street, Suite 100

Clovis, NM 88101

Email: thall@currycounty.org

1.2.3. Page 28, Section 6.C.

Add document "Options, Exceptions or Variations Form" as included in this addendum.

2. SPECIFICATIONS:

2.1. Specification Section 04 2200 - CONCRETE UNIT MASONRY

2.1.1. Add paragraph 1.3 C as follows:

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- C. Decorative CMU(s): Concrete masonry unit(s) exposed to view after construction is complete exhibiting desirable characteristics including but not limited to unit configuration, weight, texture, color, or finish.
 - 2.1.2. Revise subparagraph 2.2 A 2 as follows:
 - 2. Provide square-edged units for outside corners unless otherwise indicated.
 - 2.1.3. Revise subparagraph 2.2 B 5 as follows:
 - 2. Exposed Faces: Color and texture shall appear consistent as produced from the same batch.
 - 2.1.4. Add subparagraphs 2.2 B 7 and 2.2 B 8 as follows:
 - 7. Except as otherwise shown or specified, provide CMUs with manufacturer's standard finish and color at all locations, including construction below grade, where masonry will not be exposed to view after construction is complete. In other locations provide units with surface textures and colors specified or as shown on the Architectural Drawings.
 - 8. Integral Water Repellent: Provide units made with an approved integral water repellent admixture.
 - 2.1.5. Add paragraph 2.2 C and associated subparagraphs as follows:
- C. Decorative CMUs: ASTM C 90.
 - 1. **Basis of Design Product:** Product selections are based on the manufacturer/product indicated. Subject to compliance with requirements, provide basis-of-design manufacturer/product or a comparable manufacturer/product meeting the quality, appearance, options and performance criteria with that specified.
 - a. **Oldcastle Superlite:** (602) 352-3800, 4626 N. 42nd Avenue, Phoenix, AZ 85019.
 - b. Or Approved Equal.
 - 2. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 1900 psi.
 - 3. Density Classification: Medium weight (unit weight of 105 to 125 pcf), unless otherwise indicated.
 - 4. Provide Decorative CMUs with manufacturer's standard finish and in color specified at all locations where masonry will be exposed to view after construction is complete. In other locations provide units with surface textures and colors specified or as shown on the Architectural Drawings.
 - 5. Color: Buff #2.
 - 6. Integral Water Repellent: Provide units made with an approved integral water repellent admixture.
 - 2.1.6. Add paragraph 2.2 D and associated subparagraphs as follows:
- D. Integral Water Repellent: Provide units made with integral water repellent for interior and exterior units, inclusive of both CMUs and decorative CMUs.

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1. Integral Water Repellent: Liquid polymeric, integral water-repellent admixture that does not reduce flexural bond strength. Units made with integral water repellent, when tested according to ASTM E 514/E 514M as a wall assembly made with mortar containing integral water-repellent manufacturer's mortar additive, with test period extended to 24 hours, shall show no visible water or leaks on the back of test specimen.
 - a. **Products:** Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - 1) **BASF Corp. - Construction Chemicals; *MasterPel 240*** (Pre-2014: Rheopel Plus) or ***MasterPel 200HD*** (Pre-2014: Rheopel 200HD): 23700 Chagrin Boulevard, Beachwood OH 44122, (800) 628-9990, <https://www.master-builders-solutions.basf.us/>
 - 2) Or Approved Equal.

2.2. Specification Section 07 2100, THERMAL INSULATION

- 2.2.1. Replace Specification 07 2100, Thermal Insulation, in its entirety, as included in this addendum.

2.3. Specification Section 09 7800, INTERIOR WALL PANELING

- 2.3.1. Add Specification 09 7800, Interior Wall Paneling as included in this addendum.

2.4. Specification Section 10 1419, DIMENSIONAL LETTER SIGNAGE

- 2.4.1. Add Specification 10 1419, Dimensional Letter Signage as included in this addendum.

2.5. Specification Section 12 3616, METAL COUNTERTOPS

- 2.5.1. Add Specification 12 3616, Metal Countertops as included in this addendum.

3. DRAWINGS:

3.1. General

- 3.1.1. Revise keynote "05 5000.01" to "05 5213.02 ANIMAL TIE RAIL, 6" O.D. VERTICAL SUPPORTS, 4" O.D. HORIZONTAL RAILS." Refer to Details A5 and B5 on sheet A5.2.
- 3.1.2. Revise keynote "13 3419.03" to read "ROOF PURLIN, DEPTH MAY VARY BY MANUFACTURER; BASIS-OF-DESIGN IS 10" DEEP"
- 3.1.3. Revise keynote "13 3419.07" to read "METAL WALL PANEL, 1-1/2" THICK"
- 3.1.4. Revise keynote "27 0000.01" to read "CABLE TRAY, CONTRACTOR SHALL COORDINATE EXACT SIZE, LOCATION AND ROUTING WITH METAL BUILDING SYSTEMS FOR PENETRATIONS THROUGH STEEL BENT SO AS NOT TO CONFLICT WITH OVERHEAD DOOR TRACKS OR OTHER POTENTIAL OBSTRUCTIONS. REFER TO SPECIAL SYSTEMS PLAN SHEET 'ET1.1' FOR MORE INFORMATION"

3.2. Drawing A2.1 – EXTERIOR ELEVATIONS

- 3.2.1. Revise keynote "09 9123.01" to "09 9113.01 PAINTED CURRY COUNTY LOGO, PAINT APPLIED DIRECT TO METAL SIDING, COLOR: WHITE"
- 3.2.2. Revise keynote "09 9123.07" to "09 9113.01 PAINTED CURRY COUNTY LOGO, PAINT APPLIED DIRECT TO METAL SIDING, COLOR: WHITE"

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- 3.2.3. Revise keynote reference "10 1400.04" to read "10 1419.04" which states "8" BUILDING ADDRESS LETTERS."

3.3. Drawing A4.1 – ENLARGED PLANS

- 3.3.1. CLARIFICATION: Detail C1/A4.1 Countertop Bracket shall remain unpainted.

3.4. Drawing A5.2 – SECTION DETAILS

- 3.4.1. Revise keynote reference "05 5000.03" to read "05 5213.03" which states "2" STEEL PIPE, SCHEDULE 40, PAINT."
- 3.4.2. Revise keynote reference "05 5000.04" to read "05 5213.04" which states "4" STEEL PIPE, SCHEDULE 40, PAINT."

4. PRIOR APPROVALS

3.3. NO PRIOR APPROVALS AT THIS TIME

All other provisions of the Contract Documents shall remain unchanged. This addendum is hereby made a part of the Contract Documents to the same extent as those provisions contained in the original documents and all itemized listings thereof.

End of Addendum

ITB #2022.23.11

CONSTRUCTION OF NEW LIVESTOCK PAVILION

PREBID MEETING 6.23.2.2023 2:00PM

NAME	COMPANY	EMAIL	PHONE #	DATE
JAY DRAPER	W.T.DENTON MECH	JAYDRAPER@WTDENTONMECH.COM	575-265-9212	6-23-23
Tyle Meives	Tyco Construction	tylmeiws@yahoo.com	575-799-7262	6-23-23
Cody Kent	Tyco CONSTRUCTION	cody_kent@yahoo.com	(575) 309-8740	6/23/23
Jeff Sharp	I.T.S. Refrigeration	itsrefrig@gmail.com	575-760-3333	6/23/23
Scott Hays	WWRC, Inc.	bids@wwrcinc.com	575-769-2618	6/23/23
Eddie Romero	NBS Construction	EJRomero60@gmail.com	575-714-5052	6/23/23
Gabe Goodwin	My Metal	ggoodwin@gomymetal.com	575-763-2662	
Victoria Carrizales	weil construction	v.carrizales@weilconstruction.com	316 554 6976	6/23/23
Art Gallegos	Weil Const.	agallegos@weilconstruction.com	505-220-7802	6/23/23
Sonia Flores	Edgar Flores Construction Inc.	efloresconst@gmail.com	575-799-5386	6/23/23
Edgar Flores	Edgar Flores Const. Inc.	efloresconst@gmail.com	(575) 799-5386	6/23/23
Matt Myers	TRIPLE M ELECTRIC	3MELECTRICLOUIS@GMAIL.COM	(575) 799-6322	6/23/23
KC Messick	Curry County Fairgrounds	kyle.messick@coakview.com	575-309-3851	6/23/23
Larry Perry	EPT Construction	lperry@epx.com	505 288 4167	6/23/23

Pre-Bid Meeting ITB #2022.23.11
Construction of New Livestock Pavilion
6/23/23 2:00pm

<u>NAME</u>	<u>COMPANY</u>	<u>EMAIL</u>	<u>PHONE #</u>	<u>DATE</u>
Jay Draper	W.T Denton	jaydraper@wtdentonmech.com	575-265-9212	6/23/2023
Tyler Meives	Tyco Construction	tylermeiwes@yahoo.com	575-799-7262	6/23/2023
Cody Kent	Tyco Construction	cody.kent@yahoo.com	575-309-8740	6/23/2023
Jeff Tharp	I.T.S. Refrigeration	itsrefrigeration@gmail.com	575-760-3333	6/23/2023
Scott Hays	WWRC, Inc	bids@wwrcinc.com	575-769-2618	6/23/2023
Eddie Romero	NGS Construction	ejromero60@gmail.com	575-714-5052	6/23/2023
Gabe Goodwin	My Metals	ggoodwin@gomymetal.com	575-763-2662	6/23/2023
Victoria Carrizales	Weil Construction	v.carrizales@weilconstruction.com	316-554-6976	6/23/2023
Art Gallegos	Weil Construction	a.gallegos@weilconstruction.com	505-120-7802	6/23/2023
Sonia Flores	Edgar Flores Conststruction	efloresconst@gmail.com	575-799-5386	6/23/2023
Edgar Flores	Edgar Flores Conststruction	efloresconst@gmail.com	575-799-5386	6/23/2023
Matt Myers	Triple M Electric	3melectricclovis@gmail.com	575-799-6322	6/23/2023
KC Messick	Curry County Fairgrounds	kyle.messicl@oakviewgroup.com	575-309-3851	6/23/2023
Larry Perry	EPX Construction	tperry@epxteam.com	505-288-4167	6/23/2023
Ty Perry	EPX Construction	tperry@epxteam.com	505-980-3666	6/23/2023
Layne Norris	Norris Electric	layne@norriselectric.org	575-799-2990	6/23/2023
Chris Ulibarri	W.T. Denton	culibarri@wtdentonmech.com	575-693-2351	6/23/2023
Casey Spursin	Aisling Company	info@aislingco.com	505-871-1000	6/23/2023
Patrick Sanchez	SDV Construction	estimating@sdvconstruction.com	505-225-4931	6/24/2023

PROPOSAL FORM
OPTIONS, EXCEPTIONS OR VARIATIONS FORM
ITB #2022/23-11 CONSTRUCTION OF NEW LIVESTOCK PAVILION
DUE DATE: JULY 14, 2023

Please state each and every option, exception, or variation to the specifications (if any) for the services offered. Please sign below and return with your offer.
(Use additional pages if necessary.)

1. THERE ARE OPTIONS, EXCEPTIONS OR VARIATIONS _____
Signature

2. THERE ARE NO OPTIONS, ETC. LISTED. The services offered on this Invitation to Bid meet or exceed all specifications, terms and conditions as described in said Invitation to Bid without exceptions. I understand services not meeting all specifications, terms and conditions will be rejected.

Signature

THIS PAGE MUST BE COMPLETED AND SUBMITTED AS A PART OF YOUR BID

SECTION 07 2100 - THERMAL INSULATION**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. Extruded polystyrene foam-plastic board insulation.
- 2. Glass-fiber blanket insulation.

B. Related Requirements:

- 1. Section 07 2111 "Pre-Engineered Building Insulation" for roof and wall batt insulation system, vapor barrier liner fabric, thermal blocks, straps, and other devices and components.
- 2. Section 09 2216 "Non-Structural Metal Framing" for sound attenuation blanket used as acoustic insulation.
- 3. Section 13 3419 "Metal Building Systems" for pre-engineered building assemblies.

1.3 ACTION SUBMITTALS

A. Product Data: For the following:

- 1. Extruded polystyrene foam-plastic board insulation.
- 2. Glass-fiber blanket insulation.

1.4 INFORMATIONAL SUBMITTALS

A. Installer's Certification: Listing type, manufacturer, and R-value of insulation installed in each element of the building thermal envelope.

- 1. For blown-in or sprayed fiberglass and cellulosic-fiber loose-fill insulation, indicate initial installed thickness, settled thickness, settled R-value, installed density, coverage area, and number of bags installed.
- 2. Sign, date, and post the certification in a conspicuous location on Project site.

B. Product Test Reports: For each product, for tests performed by a qualified testing agency.

- C. Research Reports: For foam-plastic insulation, from ICC-ES.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Protect insulation materials from physical damage and from deterioration due to moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.
- B. Protect foam-plastic board insulation as follows:
 - 1. Do not expose to sunlight except to necessary extent for period of installation and concealment.
 - 2. Protect against ignition at all times. Do not deliver foam-plastic board materials to Project site until just before installation time.
 - 3. Quickly complete installation and concealment of foam-plastic board insulation in each area of construction.

PART 2 - PRODUCTS

2.1 EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION

- A. Extruded Polystyrene Board Insulation, Type IV: ASTM C578, Type IV, 25-psi minimum compressive strength; unfaced.
 - 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:
 - a. DiversiFoam Products.
 - b. Dow Chemical Company (The).
 - c. Owens Corning.
 - 2. Flame-Spread Index: Not more than 25 when tested in accordance with ASTM E84.
 - 3. Smoke-Developed Index: Not more than 450 when tested in accordance with ASTM E84.
 - 4. Fire Propagation Characteristics: Passes NFPA 285 testing as part of an approved assembly.
 - 5. Labeling: Provide identification of mark indicating R-value of each piece of insulation 12 inches and wider in width.

2.2 GLASS-FIBER BLANKET INSULATION

- A. Glass-Fiber Blanket Insulation, Polypropylene-Scrim-Kraft Faced: ASTM C665, Type II (nonreflective faced), Class A (faced surface with a flame-spread index of 25 or less); Category 1 (membrane is a vapor barrier).

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:
 - a. CertainTeed Corporation.
 - b. Johns Manville; a Berkshire Hathaway company.
 - c. Knauf Insulation.
 - d. Owens Corning.
2. Labeling: Provide identification of mark indicating R-value of each piece of insulation 12 inches and wider in width.

2.3 ACCESSORIES

- A. Insulation for Miscellaneous Voids:
 1. Glass-Fiber Insulation: ASTM C764, Type II, loose fill; with maximum flame-spread and smoke-developed indexes of 5, per ASTM E84.
- B. Adhesive for Bonding Insulation: Product compatible with insulation and air and water barrier materials, and with demonstrated capability to bond insulation securely to substrates without damaging insulation and substrates.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean substrates of substances that are harmful to insulation, and/or vapor retarders, including removing projections capable of puncturing insulation or vapor retarders, or that interfere with insulation attachment.

3.2 INSTALLATION, GENERAL

- A. Comply with insulation manufacturer's written instructions applicable to products and applications.
- B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed to ice, rain, or snow at any time.
- C. Install insulation with manufacturer's R-value label exposed after insulation is installed.
- D. Extend insulation to envelop entire area to be insulated. Fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

- E. Provide sizes to fit applications and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units unless multiple layers are otherwise shown or required to make up total thickness or to achieve R-value.

3.3 INSTALLATION OF SLAB INSULATION

- A. On vertical slab edge and foundation surfaces, set insulation units using manufacturer's recommended adhesive according to manufacturer's written instructions.
 - 1. If not otherwise indicated, extend insulation a minimum of 24 inches below exterior grade line.
- B. On horizontal surfaces, loosely lay insulation units according to manufacturer's written instructions. Stagger end joints and tightly abut insulation units.
 - 1. If not otherwise indicated, extend insulation a minimum of 24 inches in from exterior walls.

3.4 INSTALLATION OF FOUNDATION WALL INSULATION

- A. Butt panels together for tight fit.
- B. Adhesive Installation: Install with adhesive or press into tacky waterproofing or dampproofing according to manufacturer's written instructions.

3.5 INSTALLATION OF INSULATION IN FRAMED CONSTRUCTION

- A. Blanket Insulation: Install in cavities formed by framing members according to the following requirements:
 - 1. Use insulation widths and lengths that fill the cavities formed by framing members. If more than one length is required to fill the cavities, provide lengths that will produce a snug fit between ends.
 - 2. Place insulation in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members.
 - 3. Maintain 3-inch clearance of insulation around recessed lighting fixtures not rated for or protected from contact with insulation.
 - 4. For metal-framed wall cavities where cavity heights exceed 96 inches, support unfaced blankets mechanically and support faced blankets by taping flanges of insulation to flanges of metal studs.
 - 5. Vapor-Retarder-Faced Blankets: Tape joints and ruptures in vapor-retarder facings, and seal each continuous area of insulation to ensure airtight installation.
 - a. Exterior Walls: Set units with facing placed toward interior of construction unless otherwise indicated on Drawings.

- B. Miscellaneous Voids: Install insulation in miscellaneous voids and cavity spaces where required to prevent gaps in insulation using the following materials:
 - 1. Glass-Fiber Insulation: Compact to approximately 40 percent of normal maximum volume equaling a density of approximately 2.5 lb/cu. ft..
 - 2. Spray Polyurethane Insulation: Apply according to manufacturer's written instructions.

3.6 PROTECTION

- A. Protect installed insulation from damage due to harmful weather exposures, physical abuse, and other causes.
- B. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

END OF SECTION 07 2100

SECTION 09 7813 – INTERIOR WALL PANELING**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. Sheet metal wall paneling.
- 2. Weather resistant barrier to be used in conjunction with sheet metal wall paneling when used in wet locations.

B. Related Requirements:

- 1. Section 06 1053 "Miscellaneous Rough Carpentry" for plywood backing panels, furring, blocking, and other carpentry work not exposed to view.
- 2. Section 06 2023 "Interior Finish Carpentry" for interior trim, interior tongue-and-groove lumber for ceilings and interior plywood paneling exposed to view.
- 3. Section 07 9200 "Joint Sealants" for sealing joints between sheet metal wall paneling and concrete slab, equipment, plumbing fixtures, toilet accessories and abutting surfaces.

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

- 1. Include anchorage devices specific to project substrate types.

B. Shop Drawings: Submit elevations for each application and location. Indicate details of joints and attachments.

- 1. Scale of Drawing Elevations: 1/4 inch to 1 foot, minimum.
- 2. Scale of Drawing Details: 3 inches to 1 foot, minimum.

- C. Samples for Verification: For each type of exposed finish, prepared on Samples of size indicated below:
 - 1. Metal Panels: For each panel indicated, 12-inches long by actual panel width.
 - a. Include hemmed edge detail in addition to finish, surface design, and color.
 - 2. Weather resistant barrier: Minimum 8-1/2 inches by 11 inch, sealing tape, self-adhering flashing and fasteners.
 - 3. Include fasteners, closures, and other metal panel accessories.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.

1.6 QUALITY ASSURANCE

- A. Company specializing in the installation of work similar to that required for this project.
- B. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
 - 1. Build mockups for each type and color of sheet metal wall panel assemblies including corner, soffits, supports, attachments, and accessories.
 - 2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components, metal panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling to prevent staining, denting, deterioration of components or other damage.
- B. Unload, store, and erect metal panel products and accessory items in a manner to prevent misshaping panels or exposing panels to surface damage from weather or construction operations.
- C. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.

- D. Retain strippable protective covering on metal panels during installation.

1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Apply weather barrier within the range of ambient and substrate temperatures recommended by weather barrier manufacturer. Protect substrates from environmental conditions that affect performance of weather barrier. Do not apply weather barrier to a damp or wet substrate or during snow, rain, fog, or mist.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Sheet Metal Standard for Flashing and Trim: Comply with NRCA's "The NRCA Roofing Manual" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated or shown in Drawings.

2.2 SHEET METALS

- A. General: Protect mechanical and other finishes on exposed surfaces from damage by applying strippable, temporary protective film before shipping.
- B. Metallic-Coated Steel Sheet: Provide zinc-coated (galvanized) steel sheet according to ASTM A 653/A 653M, G90 coating designation.
 - 1. Surface: Smooth, flat and with manufacturer's standard clear acrylic coating on side to be exposed to view.

2.3 METAL WALL PANELING [*Drawing Designation: M-1*]

- A. Source Limitations: Obtain sheet metal wall panels from single source from single manufacturer.
- B. Description: Provide zinc-coated (galvanized) steel sheet according to ASTM A 653/A 653M, G90 coating designation in sheets from same production run, fabricated as indicated in Drawings.
- C. Orientation: Vertical.
- D. Panel Size:
 - 1. Width: 22-inch on center panels following edge applied hems, unless otherwise indicated, cut down from larger flat sheets.
 - 2. Height: As indicated in Drawings.

- E. Edges: Edges exposed to view shall be hemmed.
- F. Backing: Plywood backing panels as indicated in Drawings and specified in Section 06 1053 "Miscellaneous Rough Carpentry."
- G. Colors, Textures, and Patterns: As indicated in Drawings.
- H. Fabrication: Shop fabricate to greatest extent possible.

2.4 WEATHER BARRIER

- A. General: Weather barrier system is limited for use behind sheet metal wall paneling when installed in wet locations.
- B. Source Limitations: Obtain weather resistant barrier membrane and associated auxiliary materials recommended by air barrier manufacturer for intended use and compatible with air barrier from single source from single manufacturer.
- C. Weather Resistant Barrier Membrane: 100% flash spun-bonded high density polyethylene fibers bonded together by heat and pressure, nonwoven, non-perforated.
 - 1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - a. DuPont Building Innovations; Tyvek CommercialWrap®; 4417 Lancaster Pike, Chestnut Run Plaza 721, Wilmington, DE 19805, (800) 448-9835, <http://construction.TYVEK.com>.
 - b. Or Approved Equal.
- D. Seam Tape: 2 or 3 inch wide; DuPont™ Tyvek® Tape as manufactured by DuPont Building Innovations
- E. Fasteners:
 - 1. DuPont™ Tyvek® Wrap Caps, as manufactured by DuPont Building Innovations: #4 nails with large 1-inch plastic cap fasteners.
 - 2. DuPont™ Tyvek® Wrap Cap staples as manufactured by DuPont Building Innovations. (Cap staples are only recommended for residential construction).
- F. Sealants:
 - 1. Provide sealants that comply with ASTM C 920, elastomeric polymer sealant to maintain watertight conditions.
 - 2. Sealants recommended by the weather barrier manufacturer.
- G. Adhesive:

1. Provide adhesive recommended by weather barrier manufacturer.

H. Primer:

1. Provide flashing manufacturer recommended primer to assist in adhesion between substrate and flashing.

I. Self Adhering Flashing:

1. DuPont™ FlexWrap™, as manufactured by DuPont Building Innovations: flexible membrane flashing materials for window openings and penetrations.
2. DuPont™ StraightFlash™, as manufactured by DuPont Building Innovations: straight flashing membrane materials for flashing windows and doors and sealing penetrations, masonry ties and to act as self-sealing protection pad at coping chairs, etc.
3. DuPont™ StraightFlash™ VF, as manufactured by DuPont Building Innovations: dual-sided, straight flashing membrane materials for brickmold and non-flanged windows and doors.

2.5 MISCELLANEOUS MATERIALS

- A. General: Provide materials and types of fasteners, solder, protective coatings, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and as recommended by manufacturer of primary sheet metal or manufactured item unless otherwise indicated.
- B. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal or manufactured item.
1. General: Blind fasteners or self-drilling screws, gasketed, with hex-washer head.
 - a. Exposed Fasteners: Heads matching color of sheet metal wall paneling.
 - b. Blind Fasteners: High-strength aluminum or stainless-steel rivets suitable for metal being fastened.
 2. Fasteners for Zinc-Coated (Galvanized) Steel Sheet: Series 300 stainless steel or hot-dip galvanized steel according to ASTM A 153/A 153M or ASTM F 2329.
- C. Elastomeric Sealant: ASTM C 920, elastomeric silicone polymer sealant that complies with applicable requirements in Section 07 9200 "Joint Sealants" and of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.
1. Color: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for levelness, wall plumbness, maximum moisture content, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare substrates to achieve a smooth, dry, clean, structurally sound surface free of flaking, unsound coatings, cracks, and defects.
- B. Remove hardware and hardware accessories, electrical plates and covers, light fixture trims, and similar items.
- C. Acclimatize wall-covering materials by removing them from packaging in the installation areas not less than 48 hours before installation.

3.3 INSTALLATION, GENERAL

- A. General: Anchor sheet metal wall paneling and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal wall paneling system.
 - 1. Install sheet metal wall paneling true to line, levels, and slopes. Provide uniform, neat seams with minimum exposure of sealant.
 - 2. Install sheet metal wall paneling to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.
 - 3. Install exposed sheet metal wall paneling with limited oil canning, and free of buckling and tool marks.
 - 4. Torch cutting of sheet metal wall paneling is not permitted.
 - 5. Do not use graphite pencils to mark metal surfaces.
- B. Metal Protection: Where dissimilar metals contact each other, or where metal contacts pressure-treated wood or other corrosive substrates, protect against galvanic action or corrosion by painting contact surfaces with bituminous coating, installing a weather resistant barrier or by other permanent separation as recommended by sheet metal manufacturer or SMACNA's "Architectural Sheet Metal Manual".
- C. Fasteners: Use fastener sizes that penetrate wood blocking or sheathing not less than 3/4 inch for wood screws and not less than recommended by fastener manufacturer to achieve maximum pull-out resistance.

3.4 WALL PANEL INSTALLATION

- A. Align bottom of sheet metal wall panels at a constant datum/elevation to allow for abnormalities or variations in top of concrete slab surrounding the perimeter.
- B. Install seams vertical and plumb at least 6 inches from outside corners and 3 inches from inside corners unless a change of pattern or color exists at corner. Horizontal seams are not permitted.
- C. Provide consistent overlap at seams for tight closure as indicated in Drawings.
- D. Locate exposed fasteners in an evenly spaced and consistent manner as indicated in the Drawings.
- E. Seal joints at base of wall to sheet metal wall panels with approved sealant to prevent moisture intrusion.

3.5 ADJUSTING

- A. Replace paneling installed out of plumb and/or not aligned with adjacent panels or construction.

3.6 CLEANING AND PROTECTION

- A. Remove excess sealants and/or adhesive at seams, perimeter edges, and adjacent surfaces.
- B. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.
- C. Remove temporary protective coverings and strippable films as sheet metal wall panels and any associated sheet metal flashing and trim are installed unless otherwise indicated. On completion of sheet metal wall panel installation, remove unused materials and clean finished surfaces as recommended by manufacturer. Maintain sheet metal wall panels in clean condition during construction.
- D. Replace metal interior wall panel strips that cannot be cleaned.
- E. Reinstall hardware and hardware accessories, electrical plates and covers, light fixture trims, and similar items.

END OF SECTION 09 7813

SECTION 10 1419 - DIMENSIONAL LETTER 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. Cutout dimensional characters, limited to building address numbers on east exterior elevation.

B. Related Sections:

- 1. Section 13 3419 "Metal Building Systems" for exterior metal wall panels.

1.3 COORDINATION

- A. Coordinate cutout dimensional character concealed stud mounting placement with the exterior metal wall panels.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.

- B. Shop Drawings: For cutout dimensional character signs, submit scaled shop drawings showing the following:

- 1. Include fabrication and installation details and attachments to other work.
- 2. Show sign mounting heights, locations of supplementary supports to be provided by other installers, and accessories.
- 3. Show message list, typestyles, graphic elements, and layout for each sign.
- 4. Furnish full size paper mounting template showing location of mounting holes for placement of cutout dimensional letters on permanent construction by other installers.

- 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. Dimensional Characters: Full-size Sample of each type of dimensional character.
 - 2. Exposed Accessories: Full-size Sample of each accessory type.
 - 3. Full-size Samples, if approved, will be returned to Contractor for use in the Project.
- E. Product Schedule: For dimensional letter signs. Use same designations indicated on Drawings or specified.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Fabricator and Installer.
- B. Sample Warranty: For special warranty.

1.6 CLOSEOUT SUBMITTALS

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

1.7 QUALITY ASSURANCE

- A. 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.
- B. Installer Qualifications: An authorized representative of signage manufacturer for installation and maintenance of units required for this Project.

1.8 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. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 DIMENSIONAL CHARACTERS

- A. Cutout Characters: Characters with uniform faces; square-cut, smooth, eased 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:
 - a. **Century Sign Builders;** 2117 Commercial NE, Albuquerque, NM 87102, (505) 888-2901, <http://www.csbsigns.com/>
 - b. **A.R.K. Ramos;** 1321 South Walker Ave.: Oklahoma City, OK 73109, (800) 725-7266, <http://www.arkramos.com/>
 - c. **Gemini Incorporated;** 103 Mensing Way: Cannon Falls, MN 55009, (800) 538-8377, <http://www.geminisignproducts.com/>
 2. Character Material: Sheet or plate aluminum.
 3. Character Height: 8-inches.
 4. Thickness: 0.375 inch.
 5. Finishes:
 - a. Integral Aluminum Finish: Clear anodized, brushed (vertical grain).
 6. Mounting: Concealed studs.
 7. Typeface: As selected by Architect from manufacturer's full range.

2.2 DIMENSIONAL CHARACTER MATERIALS

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

2.3 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:
1. Use concealed fasteners and anchors unless indicated to be exposed.
 2. For exterior exposure, furnish stainless-steel devices unless otherwise indicated.
 3. Sign Mounting Fasteners:
 - a. Concealed Studs: Concealed (blind), threaded studs welded or brazed to back of sign material, screwed into back of sign assembly, or screwed into tapped lugs cast integrally into back of cast sign material, unless otherwise indicated.

- B. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.

2.4 FABRICATION

- A. General: Provide manufacturer's standard sign assemblies according to requirements indicated.
 - 1. Preassemble signs and assemblies in the shop to greatest extent possible. Disassemble signs and assemblies 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 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 connections of flux, and dress exposed and contact surfaces.
 - 4. Conceal connections if possible; otherwise, locate connections where they are inconspicuous.
 - 5. Internally brace dimensional characters for stability, to meet structural performance loading without oil-canning or other surface deformation, and for securing fasteners.
 - 6. Provide rabbets, lugs, and tabs necessary to assemble components and to attach to existing work. Drill and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match sign finish.
 - 7. Castings: Fabricate castings free of warp, cracks, blowholes, pits, scale, 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.

2.5 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.

2.6 ALUMINUM FINISHES

- A. Clear Anodic Finish: AAMA 611, Class II, 0.010 mm or thicker.

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

3.2 INSTALLATION

- A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.
 - 1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
 - 2. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
 - 3. 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.
- B. Mounting Methods:
 - 1. Concealed Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
 - a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place sign in position and push until flush to surface, embedding studs in holes. Temporarily support sign in position until adhesive fully sets.
 - b. Thin or Hollow Surfaces: Place sign in position and flush to surface, install washers and nuts on studs projecting through opposite side of surface, and tighten.

3.3 ADJUSTING AND CLEANING

- A. Remove and replace damaged or deformed characters and signs that do not comply with specified requirements. Replace characters 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 10 1419

SECTION 12 3616 - METAL COUNTERTOPS**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. Stainless-steel countertops.

B. Related Requirements:

- 1. Section 05 5000 "Metal Fabrications" for non-decorative metal fabrications including custom fabricated countertop supports.
- 2. Section 07 9200 "Joint Sealants" for sealing joints between equipment, plumbing fixtures, toilet accessories and abutting surfaces.
- 3. Section 10 2800 "Toilet, Bath and Laundry Accessories" for soap dispensers and similar accessories mounted in counter.
- 4. Section 22 4000 "Plumbing Fixtures and Trim" for sinks and plumbing fittings.

1.3 COORDINATION

- A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to support loads imposed by installed and fully loaded wall-mounted shelves.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For metal fabrications.

- 1. Include plans, sections, details, and attachments to other work. Detail fabrication and installation, including field joints.
- 2. For countertops, show locations and sizes of cutouts and holes for items installed in metal countertops.
- 3. For wall-mounted shelves, indicate requirements for blocking or reinforcements in supporting construction.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products only after casework and supports on which they will be installed has been completed in installation areas.
- B. Keep finished surfaces of products covered with polyethylene film or other protective covering during handling and installation.

1.6 FIELD CONDITIONS

- A. Field Measurements: Where products are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 STAINLESS-STEEL FABRICATIONS

- A. Countertops: Fabricate from 0.05-inch thick minimum, stainless-steel sheet. Provide smooth, clean exposed tops and edges in uniform plane, free of defects.
 - 1. Joints: Fabricate countertops without field-made joints.
 - 2. Weld shop-made joints.
 - 3. Extend the top down to provide a 3/4-inch thick edge with a 1/2-inch return flange.
 - 4. Provide raised (marine) edge at back and sides of tops containing sinks; pitch tops containing sinks two ways to provide drainage without channeling or grooving.
 - 5. Provide 3/4-inch thick plywood substrate as indicated in drawings.

2.2 MATERIALS

- A. Stainless-Steel Sheet: ASTM A240/A240M, Type 304.
- B. Sealant for Countertops: Manufacturer's standard sealant that complies with applicable requirements in Section 079200 "Joint Sealants" and the following:
 - 1. Mildew-Resistant Joint Sealant: Mildew resistant, single component, nonsag, neutral curing, silicone.
 - 2. Color: As selected by Architect from manufacturer's full range.

2.3 STAINLESS-STEEL FINISH

- A. Grind and polish surfaces to produce uniform, directional satin finish matching No. 4 finish, with no evidence of welds and free of cross scratches. Run grain with long dimension of each

piece. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces clean.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of products.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install metal countertops level, plumb, and true; shim as required, using concealed shims.
- B. Field Jointing: Where possible, make field jointing in the same manner as shop jointing; use fasteners recommended by manufacturer. Prepare edges to be joined in shop so Project-site processing of top and edge surfaces is not required. Locate field joints where shown on Shop Drawings.
- C. Secure countertops to custom fabricated countertop supports.
- D. Abut top and edge surfaces in one true plane, with internal supports placed to prevent deflection.
- E. Seal junctures of countertops, splashes, and walls with sealant for countertops.
- F. Install joint sealant in joints between equipment, plumbing fixtures, toilet accessories and abutting surfaces with continuous joint backing unless otherwise indicated. Produce airtight, watertight, vermin-proof, sanitary joints.

3.3 CLEANING AND PROTECTION

- A. Repair or remove and replace defective work as directed on completion of installation.
- B. Clean finished surfaces. Remove and replace damaged products or touch up and refinish damaged areas to match original factory finish, as approved by Architect.
- C. Protection: Provide 6-mil plastic or other suitable water-resistant covering over countertop surfaces. Tape to underside of countertop at a minimum of 48 inches o.c. Remove protection at Substantial Completion.

END OF SECTION 12 3616