



ADDENDUM NO. 2

September 16, 2022

**RE: Jeffersontown Police Station
10410 Taylorsville Rd.
Jeffersontown, Kentucky 40299
Project No. 20051**

**FROM: Brandstetter Carroll Inc.
2360 Chauvin Drive
Lexington, Kentucky 40517
Phone 859-268-1933
Fax 859-268-3341**

TO: Plan Holders

This Addendum forms a part of the Construction Documents dated August 29, 2022. Each Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of four (4) pages and the following attachments:

- 074000 Metal Siding

GENERAL:

1. All construction trailers must be permitted by the Department of Public Health and Wellness in accordance with chapter 115 of Louisville Jefferson County Metro Ordinances.
2. Mosquito control in accordance with chapter 96 of Louisville Jefferson County Metro Ordinances is to be provided.
3. Compliance with Metro Smoking Ordinances must be maintained.
4. Each bid package shall submit a bid bond with their bid submission. Each bid package will also be responsible for providing a performance and payment bond prior to commencement of any work.
5. The listed insurance amounts, within the bid documents, shall be required for each bid package as a whole, and not for each individual subcontractor.

CHANGES TO ADDENDUM 1:

1. **011200 Multiple Contract Summary**
 - A. Refer to 1.5, A, 3: Sleeves for the work in each contract shall be the work of each contract for its own work.
 - B. Refer to 1.5, A, 5: Equipment pads and light pole bases for the work in each contract shall be the work of each contract for its own work.

- C. Refer to 1.5, A, 8: Each contract shall perform its own cutting and patching.
- D. Refer to 1.5, C, 4: Temporary enclosures shall be included as part of the General Building Construction Bid Package #2.
- E. Refer to 1.5, C, 6: Disregard statement of "up to 2 tons".
- F. Refer to 1.5, C, 10: the Project Sign shall be included as part of the General Building Construction Bid Package #2.
- G. A temporary water connection will be provided by the owner. Each bid package will be responsible for transporting water to needed location(s).
- H. Refer to General Building Construction Bid Package #2
 - i. Disregard the Peg Board and Gun Cleaning Mat.
- I. Refer to Plumbing Construction Bid Package #3
 - i. This Bid Packages shall include Facility Water Distribution Piping. All fire suppression piping shall be included as part of Fire Protection under Bid Package #2.
 - ii. Under Work Items, items shall read "Water Bottle Filling Stations". The next line, "Temporary Water", shall be removed. Temporary Facilities are to be provide as part of Bid Package #2.
 - iii. Refer to Item 30. A temporary water connection will be provided by the Owner. Each bid package will be responsible for transporting water to needed location(s).
- J. Refer to Mechanical Construction Bid Package #4
 - i. Disregard Work Item "Structural Steel". All structural steel is to be provided as part of Bid Package #2. However, coordination is to occur between all bid packages.
 - ii. Disregard Work Item "Building System Alarm". The alarm system shall be provided by the Owner's security vendor.
 - iii. This Bid Package is to provide temporary heating. A temperature 40 degrees shall be maintained, however a minimum of 60 degrees shall be maintained during installation of finishes and casework. Temporary enclosures are already listed to be provided within Bid Package #2, however coordination is to occur between all bid packages.

CHANGES TO SPECIFICATIONS:

1. 042000 Unit Masonry

- A. CavClear may be considered as an acceptable manufacturer for Cavity Drainage Material.

2. 064116 Casework

- A. Casework fabricators are to be AWI Quality Certified. The project will not be a registered AWI QCP project.
- B. White thermos-fused melamine cabinet interiors and doors is not acceptable. Provide construction per the drawings and specification.

- C. PVC edge banding is not acceptable.
- D. Brackets are be powder coated steel.
- 3. **074000 Metal Siding**
 - A. Refer to attached specification 074000 Metal Siding.
- 4. **074213.13 Metal Plate Wall Panels**
 - A. Disregard this specification in its entirety.
- 5. **075423 Thermoplastic Polyolefin (TPO) Roofing System**
 - A. GenFlex (Firestone) may be considered as an acceptable manufacturer.
- 6. **087100 Door Hardware**
 - A. Ives may be considered an acceptable manufacturer for butt/continuous hinges, protection plates, door stops, and holders.
 - B. Allegion and Von Duprin may be considered acceptable manufacturers for wire harnesses and power supplies.
 - C. Von Duprin may be considered an acceptable manufacturer for exit devices and electronic accessories.
 - D. LCN may be considered an acceptable manufacturer for door closers and door operators.
 - E. Glynn Johnson may be considered an acceptable manufacturer door stops and holders.
 - F. Zero Products may be considered an acceptable manufacturer for architectural seals.
 - G. Best may be considered an acceptable manufacturer for Locksets.
 - H. Dorma may be considered an acceptable manufacturer for closers.
 - I. ABH may be considered an acceptable manufacturer for overhead stops and holders.
- 7. **088853 Security Windows**
 - A. Exterior security windows (ballistic and ICC-500) are to receive low-e coating and tinting to match other non-secure glazing.
 - B. The ICC-500 rated windows within the storms shelter area shall be Torgard TTH600 by Insulgard Security Products or approved equal. Finish is to match the other exterior non-ICC-500 rated windows.
- 8. **098433 Sound-Absorbing Wall Units**
 - A. CSI Creative may be considered as an acceptable manufacturer.
- 9. **098436 Sound-Absorbing Ceiling Units**
 - A. CSI Creative may be considered as an acceptable manufacturer.
- 10. **104000 Miscellaneous Building Specialties**
 - A. Disregard the Peg Board and Gun Cleaning Mat.
- 11. **142400 Hydraulic Elevators**
 - A. Disregard items 2.3, B, 5 and 2.5, C.
- 12. **323223 Segmental Retaining Walls**

- A. Disregard this specification in its entirety.

CHANGES TO DRAWINGS:

1. Sheet A-301 Sections

- A. Refer to section A3. Insulation within the soffit is to be covered with 5/8" type X gypsum board.

2. Sheet A-306 Sections

- A. Refer to section A1. Insulation within the soffit is to be covered with 5/8" type X gypsum board.

3. Sheet A-309 Sections

- A. Refer to section A1. The wood cap shall be Walnut and finished to match the wood doors.

4. Sheet A-603 Door Types & Schedules

- A. Refer to the Door Schedule: Door and frame assemblies 123, 124, & 129 are to be STC rated.

5. Sheet I-101 Upper Level Interior Plan

- A. The following rooms are to receive full height painted FRT Plywood over the ICF. Please note that all joints are to be flush and tight. Electrical 237 and Janitor 239. All other ICF instances are to receive painted 5/8" type x gypsum board or tile, per the bid documents.

6. Sheet I-102 Lower Level Interior Plan

- A. The following rooms are to receive full height painted FRT Plywood over the ICF. Please note that all joints are to be flush and tight. Property Room 109, Long Term Property 110, Training Storage 114, Armory 116, Quarter Master 117, Water Closet 121B, Electrical Closet 121A, K9 Kennel 133, Sallyport 132, Decontamination 134, Bike Storage 135, Found Property 136, Accident Reconstruction Unit 137, Custodial 155, and Electrical 156. All other ICF instances are to receive painted 5/8" type X gypsum board or tile, per the bid documents.

7. Sheet I-701 Casework

- A. Refer to details C5 and D5. All vertical surfaces are to receive plastic laminate in lieu of solid surface as indicated.

8. Sheet I-702 Casework

- A. Refer to detail A1. Cubbies shall be wood in lieu of plastic laminate as indicated. Wood species shall be Walnut and finished to match the wood doors.
- B. Refer to details B1 and B3. Provide stainless steel counters at Evidence Intake 102 and Evidence Processing 104.
- C. Refer to details B6, C3, C4, & C6. Provide wall mounted brackets at 32" o.c.

END OF ADDENDUM NO. 2

SECTION 074000 METAL SIDING PANELS

GENERAL

1.1 SECTION INCLUDES

- A. Architectural metal wall panels for mechanical screens.

1.2 REFERENCES

- A. American Iron and Steel Institute (AISI), Specification for the Design of Cold-Formed Steel Structural Members (2008).
- B. American Institute of Steel Construction (AISC) Manual of Steel Construction (Current Edition).
- C. ASTM International (ASTM):
 - 1. ASTM A792 - Specification for Sheet Steel, Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
 - 2. ASTM E283 - Test Method for Rate of Air Leakage over Solid Substrate.
 - 3. ASTM E331 - Test Method for Rate of Water Penetration over Solid Substrate.
 - 4. ASTM E1680 - Test Method for Rate of Air Leakage over Open Framed Structure.
 - 5. ASTM E1646 - Test Method for Rate of Water Penetration over Open Framed Structure.
 - 6. ASTM E1592 - Standard Test Method for Structural Performance of Sheet Metal and Siding Systems by Uniform Static Air Pressure Difference.
 - 7. ASTM E 2140: Water Penetration - Standard Test Method for Water Penetration of Metal Roof Panel Systems by Static Water Pressure Head
 - 8. ASTM E 1996/E 1886 - Large Missile Impact Test.
- D. Sheet Metal and Air Conditioning Contractors National Association (SMACNA):
 - 1. Architectural Sheet Metal Manual.
- E. Underwriters Laboratory (UL) Roofing Materials and Systems Directory:
 - 1. Roofing Materials and Systems Directory listings and classifications of Underwriter's Laboratory roofing construction assemblies.

1.3 SYSTEM DESCRIPTION:

- A. The extent of each type of preformed metal roofing panel as indicated on the drawings shall include preformed metal roof panels, flashing required to weatherproof the system (ridge, hip, valley, cleat, eave, rake wall, rake edge, apron, inside corner, outside corner, gutter, downspout, drip sill, end wall, and other miscellaneous flashing), related accessories including but not limited to; underlayment, butyl tape, sealants used in conjunction with the roofing system, and necessary attachment hardware as required to meet the performance standards and complete the roofing system.
- B. Design Requirements:
 - 1. Continuous, one-piece, preformed, prefinished single length roof panels.
 - 2. Panels, clips, and other components required for specific project conditions.
 - 3. Manufacturer is responsible for providing evidence acceptable to Architect that

manufacturer's specified roof system is capable of meeting thermal, wind uplift, and performance requirements specified.

- C. Thermal Movement:
 - 1. Complete metal roofing and flashing system shall be capable of withstanding expansion and contraction of components caused by changes in temperature without buckling, producing excess stress on structure, anchors or fasteners, or reducing performance ability.
 - 2. Interface between panel and expansion clip shall provide for applicable thermal movement in each direction along longitudinal direction.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Shop Drawings Submittals:
 - 1. Manufacturer of the metal roof system shall provide complete shop drawings.
 - 2. Shop drawings shall be submitted and returned as approved/approved as noted prior to the beginning of product production.
- C. Product Data Submittals:
 - 1. Submit manufacturer's detailed product literature including the system profile sheet, system description including: material base-sheet gauge, seam height, panel on-center, finish, and sealant as required.
 - 2. Submit manufacturer's installation guidelines of the specified product.
- D. Submit a sample of each type of roof panel profile and a color sample. In the case where custom color is specified, submit a custom color chip for written approval and a standard color product sample for finish system review.
 - 1. Color Selection Samples: For each finish product specified, supply manufacturer's standard color chart with a minimum of 32 standard colors.
 - 2. Product Samples: For each product specified, provide a full width sample, associated clip (if required) and actual color chip of selected color.

1.5 QUALITY ASSURANCE

- A. Qualification of the Product Manufacturer:
 - 1. Manufacturer shall be a company specializing in Architectural Sheet Metal Products with at least twenty (20) years experience. Listing as a prequalified manufacturer does not release manufacturer from providing complete, current and acceptable test data for each performance, thermal, and wind load requirement specified for specific profile proposed.
 - 2. Manufacturer shall operate a permanent, full-time, manufacturing facility where the metal roof panels are produced on fixed based multi-station roll forming machines that are included in the Underwriter's Laboratory field inspection services. These facilities shall be currently under inspection at least four times per year by Underwriter's Laboratory personnel to verify compliance with UL certification. Portable on-site roll formers may not be used unless roof panels exceed 90 feet (27.5 m) in length.
- B. Qualification of Installers:
 - 1. Competent and skilled sheet metal applicators familiar with Dimensional Metals Inc products, standard details and recommendations. Applicator shall have at least two

year experience applying these types of materials with successful completion of projects with similar scope. Applicator shall be a manufacturer approved installer with company issued documentation for review.

2. Installers shall be thoroughly trained and experienced in the necessary crafts and completely familiar with and comply with the recommendations and details of the manufacturer and the "Architectural Sheet Metal Manual" published by SMACNA.
3. Installers shall follow the manufacturers' installation details without exception unless written authorization from the manufacturer and architect are provided on an installation detail revision. Detail revision authorization shall be made in advance of product installation.

C. Mock-Up:

1. The first 20 panels installed shall serve as a mock-up for A/E's approval of appearance. The sample area, when approved by A/E and Owner, shall become the project standard for appearance

1.6 PRE-INSTALLATION MEETINGS

- A. Convene minimum two weeks prior to starting work of this section.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roof system components to project site in manufacturer's unopened original containers.
- B. Protect roof system components during shipment, storage, handling and erection from mechanical abuse, stains, discoloration and corrosion.
- C. Provide strippable plastic film on all painted surfaces between contact areas to prevent abrasion during shipping, storage and handling.
- D. Store materials off the ground, providing for drainage, under protective cover which allows for air circulation and protection from foreign material contamination, mechanical damage, cement, lime, or other corrosive materials
- E. Handle materials to prevent damage to surfaces, edges and ends of roofing components. Damaged material shall be rejected and removed from site.
- F. Examine materials upon delivery to jobsite. Reject and remove physically damaged, stained or marred material from project site.
- G. Metal roof components with strippable film shall not be stored with exposure to direct sunlight.
- H. Stack material to prevent damage and allow for adequate ventilation and drainage.

1.8 PROJECT CONDITIONS

- A. Determine that work of other trades will not hamper or conflict with necessary fabrication and storage requirements for preformed metal roofing system.
- B. Protection:
 1. Provide protection or avoid traffic on completed roof surfaces.
 2. Do not overload roof with stored materials.

3. Support no roof-mounted equipment directly on roofing system.

1.9 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
- B. Determine Work of other trades that penetrates the roof is coordinated by location, in place, and accepted prior to installation of roofing system.

1.10 WARRANTY

- A. Furnish manufacturer's Non-prorated Twenty Year Finish Warranty stating that the architectural fluorocarbon coating will:
 1. Not crack, chip, peel or exhibit any other mechanical failure of paint to adhere to the substrate.
 2. Not exhibit fading or color change in excess of five hunter delta E units as determined by ASTM D2244-79.
 3. Not chalk in excess of a numerical rating of eight as determined by ASTM D4214-98.
- B. Substrate Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal roof panel assemblies that fail in materials or workmanship within specified warranty period:
 1. Failures include, but are not limited to, the following:
 - a. Structural failures, including rupturing, cracking, or penetrating.
 - b. Deterioration of metals and other materials beyond normal weathering.
 2. Warranty Period: 20 years, 6 months from Substantial Completion.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Dimensional Metals Inc., which is located at: 58 Klema Dr. N.; Reynoldsburg, OH 43068; Toll Free Tel: 800-828-1510; Tel: 740-927-3633; Fax: 740-927-3319; Email:info@dmimetals.com; Web:www.dमितals.com
- B. MBCI: P.O. Box 657, Shelbyville, Indiana 46176
- C. Ultra Seam Inc: 14432 State Route 141, Clay, Kentucky 46176.
- D. PAC-CLAD: 102 Northpoint Parkway, Acworth, Georgia 30102
- E. Atlas Aluminum: 2725 E 46th Street, Vernon, California 90058
- F. Centria: 1720 Lakepoint Drive, Suite 101, Lewisville, Texas 75057
- G. Approved Equal

2.2 SHEET MATERIALS - GENERAL

- A. Prefinished base sheet material shall be Galvalume Aluminum-Zinc (AZ50) Alloy Coated Steel Grade C meeting ASTM A792.
- B. Finish shall be 70% PVDF fluorocarbon coating, applied on a continuous coil coating line,

with top side dry film thickness of 1.1 +/- .01 mil dry film thickness and on the reverse side a wash coat and primer of .04 +/- .01 mil total dry film thickness.

1. Galvalume DynaClad: Consists of aluminum-zinc alloy coated (55% aluminum, 43.4% zinc, 1.6% silicon, nominal percentage by weight) carbon steel of commercial weight meeting ASTM 792.
 2. HDG90 DynaClad: Consists of hot-dipped galvanized steel base sheet of commercial weight (AISI G90 designation) meeting ASTM A653.
 3. Aluminum DynaClad: Consists of 3105 H14 alloy aluminum base sheet of commercial weight meeting ASTM B209.
- C. Finish color shall be selected by the Architect from the manufacturer's standard colors and metallic finishes. Unless otherwise noted all products shall be of the same finish and color.
- D. Strippable film shall be applied to the topside of the painted coil to protect the finish during fabrication, shipping and field handling. This strippable film shall be removed during installation.

2.3 ARCHITECTURAL METAL WALL PANELS

- A. Product: HORIZONTAL WALL PANEL HWP Series as manufactured by Dimensional Metals Inc.
1. Performance Testing:
 - a. ASTM E 331: Water Penetration.
 - b. ASTM E 283: Air Leakage Test.
 2. Exposed Panel Width: (HWP_16) 16 inches (406 mm) panel coverage.
 3. HWP16 Profile: HWPA16.
 4. Material/Finish: 24 Gauge Galvalume with DynaClad PVDF finish.
 5. Color: To be selected by architect from full range of colors.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine alignment and placement of building roof structure before proceeding with installation of preformed metal roofing.
- B. Examine metal roof deck before starting installation. Deck shall be clear, clean and smooth, free of depressions, waves, or projections, dry and shall remain dry and free of ice and snow, after roofing application commences. Deck flutes shall be clean and dry.
- C. Field check dimensions and check support alignment with taut string or wire. Support misalignment may cause additional stresses in the panels and contribute to oil canning.
- D. Do not proceed with installation until conditions are satisfactory. Notify the architect in writing of unsatisfactory conditions.
- E. Underlayment Installation:
 1. Verify that underlayment has been installed over solid substrate.
 2. Ensure underlayment is installed horizontally, starting at the eave working to the ridge with a 6 inches (152 mm) minimum overlap.
 3. Ensure that all fasteners are totally flush with the substrate.

3.2 INSTALLATION

- A. General Requirements:
 - 1. Install roofing and flashing in accordance with approved shop drawings and manufacturer's product data, within specified tolerances.
 - 2. Isolate dissimilar metals, masonry and concrete from metal roof system with bituminous coating.
 - 3. Anchorage shall allow for thermal expansion and contraction without stress or elongation of panels, clips or anchors.
 - 4. Coordinate flashing and sheet metal work to provide watertight conditions at roof terminations. Fabricate and install in accordance with standards set forth in the SMACNA Manual using continuous cleats at all exposed edges.
- B. Underlayment:
 - 1. Install proper protection to finished substrate to prevent moisture infiltration to roofing assembly prior to placement of panels. Cover complete roof area to receive metal roof panels with DynaClad Ultra HT Wind & Water Seal (for roof slopes less than 3:12) or a combination of DynaClad Premium Roofing Underlayment and DynaClad Ultra HT Wind & Water Seal at the eaves, valleys, rake walls, rake edges, and around all penetrations as required (for roof slopes equal or greater than 3:12).
- C. Preformed Metal Panels:
 - 1. Fasten anchor clips with fasteners as recommended by the manufacturer as required to meet the performance criteria specified.
 - 2. Install starter and edge trim before installing roof panels.
 - 3. Remove strippable plastic film prior to installation of roof panels.
 - 4. Erect metal roofing with lines, planes, rises and angles sharp and true, and plane surfaces free from objectionable warp, dents, buckle or other physical defects.
 - 5. Do not allow traffic on completed roof.
 - 6. Protect installed roof panels and trim from damage caused by adjacent construction until completion of installation.
 - 7. Remove and replace any panels or flashing components that are damaged beyond successful repair.
- D. Flashing:
 - 1. Comply with SMACNA "Architectural Sheet Metal Manual" recommendations for installation work where the manufacturer's approved shop drawings do not define a specific detail.
 - 2. Conceal fasteners and expansion provisions wherever possible.
 - 3. Hem all exposed edges of sheet metal flashing that are exposed with at least 3/4 inch (19 mm) fold under.
 - 4. Insert metal flashing into reglets, anchor with wedges and seal all joints.
 - 5. Set sheet metal items level, true to line and plumb.
 - 6. Secure all metal flashing to wood nailers with screws as indicated on the approved shop drawings.
 - 7. Use cleats to keep flashing end laps closed when face width exceeds 8 inches (203 mm).

3.3 FIELD QUALITY CONTROL

- A. Tolerances:
 - 1. Applicable erection tolerances: Maximum variation from true planes or lines shall be 1/4 inch (6 mm) in 20 feet (6.1 m) or 3/8 inch (9.5 mm) in 40 feet (12.2 m).
 - 2. Metal roof systems cannot correct any previously installed support or wood nailer

problems that do not meet the above tolerances.

- B. Manufacturer's Field Service:
 - 1. Manufacturer's representative shall inspect all Watertight Warranted projects during the installation of the metal roof system.
 - 2. Inspections shall be scheduled as required by the manufacturer of the roofing system.
 - 3. Two mandatory visits are required:
 - a. Inspection of proper panel and flashing installation.
 - b. Final inspection upon completion of the metal roof installation.
 - 4. Upon final inspection a report will be issued to the installer of any discrepancies and requirements for additional work. If additional work required the manufacturer will provide another final inspection to verify acceptance of completed work.

3.4 CLEANING

- A. Clean exposed surfaces of work promptly after completion of installation. To prevent rust from staining the painted finish, immediately remove filings produced by drilling or cutting.
- B. Clean roof in accordance with manufacturer's recommendations.
- C. Touch up minor abrasions and scratches in finish with the manufacturer's supplied PVDF touch up paint.
- D. Remove all scrap and construction debris from the site.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION