

August 1, 2022

ADDENDUM NO. 1



RE: New Roof, Gutters, and Sink Hole Repair
Former Sugar Creek Fire House
City of Charleston, West Virginia
2184 Falcon Drive
Charleston, WV 25387
Architect's Project No. 22065

TO: Prospective Bidders

FROM: ZMM, Inc. Architects and Engineers

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents.

**ATTACH THIS ADDENDUM TO THE FRONT COVER OF THE PROJECT MANUAL AND
ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID
FORM.**

PART 1 - INFORMATION FOR BIDDERS

- A. Pre-Bid Meeting Sign-In Sheets are attached to this Addendum.

PART 2 - CLARIFICATIONS

- A. Davis-Bacon Prevailing Wage Rates are not required for this project.
- B. Contractor shall either temporarily support, or remove and reinstall existing piping, pipe insulation, and ductwork that are supported from the existing flat roof structure that is to be removed. This shall be done as part of base bid. If the alternate bid is not awarded, the existing piping and ductwork shall be temporarily reinstalled.

PART 3 - CHANGES TO SPECIFICATIONS

- A. Section 073113 "Asphalt Shingles" – REPLACE Paragraph 2.4.B.3 to read: "Subject to compliance with requirements, provide W.R. Grace & Company Ice and Water Shield as Basis of Design or comparable products of one of the following manufacturers:" Retain manufacturers listed thereafter.
- B. ADD Section 089119 "Fixed Louvers" as attached to this Addendum.

END OF ADDENDUM

Blacksburg
200 Country Club Drive SW
Plaza One, Building E
Blacksburg, Virginia 24060
540•552•2151

Charleston
222 Lee Street West
Charleston, West Virginia 25302
304•342•0159
www.zmm.com

Martinsburg
5550 Winchester Avenue
Berkeley Business Park, Suite 5
Martinsburg, West Virginia 25405
304•342•0159

Attachments: Pre-Bid Meeting Sign-In Sheets1 pages
Section 089119 “Fixed Louvers”5 pages

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PRE-BID MEETING SIGN-IN SHEET

#22065 Roof Replacement for Sugar Creek Fire Station
July 28th, 2022 @ 10:00 AM

PLEASE PRINT

NAME: Neal Heary
FIRM: Thoroughbred Const. Corp
ADDRESS: 105 Armo Blvd
Ashland, KY 41101
PHONE: 606.922.1669 FAX: _____
EMAIL: NHEARY.TBC@GMAIL
BIDDING CONTRACT FOR: Sugar Creek

NAME: Zach Hill
FIRM: MCS Construction
ADDRESS: 3410 Chesterfield Ave
Charleston WV 25304
PHONE: 304-925-3190 FAX: _____
EMAIL: Estimating@mcconstructionwv.com
BIDDING CONTRACT FOR: Prime

NAME: John W Witrow
FIRM: Mecklenburg Roofing
ADDRESS: 499 28th street
Dunbar WV 25064
PHONE: 304-550-2331 FAX: _____
EMAIL: john@mecklenburgroofing.com
BIDDING CONTRACT FOR: ROOF

NAME: _____
FIRM: _____
ADDRESS: _____
PHONE: _____ FAX: _____
EMAIL: _____
BIDDING CONTRACT FOR: _____

PLEASE PRINT

NAME: Dan Hill
FIRM: Danhill Const. Co
ADDRESS: PO Box 685
Ganley Bridge, WV 25085
PHONE: 304 663-5761 FAX: _____
EMAIL: R.danhill@hotmail.com
BIDDING CONTRACT FOR: Prime

NAME: Stan Kinder
FIRM: Start to Finish Construction
ADDRESS: 6982 Charleston Rd.
PHONE: 304-982-2392 FAX: _____
EMAIL: StanKinder10@outlook.com
BIDDING CONTRACT FOR: Prime

NAME: _____
FIRM: _____
ADDRESS: _____
PHONE: _____ FAX: _____
EMAIL: _____
BIDDING CONTRACT FOR: _____



SECTION 089119 - FIXED LOUVERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Fixed formed-metal attic louvers.

1.2 DEFINITIONS

- A. Louver Terminology: Definitions of terms for metal louvers contained in AMCA 501 apply to this Section unless otherwise defined in this Section or in referenced standards.
- B. Horizontal Louver: Louver with horizontal blades (i.e., the axis of the blades are horizontal).
- C. Drainable-Blade Louver: Louver with blades having gutters that collect water and drain it to channels in jambs and mullions, which carry it to bottom of unit and away from opening.
- D. Wind-Driven-Rain-Resistant Louver: Louver that provides specified wind-driven-rain performance, as determined by testing in accordance with AMCA 500-L.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. For louvers specified to bear AMCA seal, include printed catalog pages showing specified models with appropriate AMCA Certified Ratings Seals.
- B. Shop Drawings: For louvers and accessories. Include plans, elevations, sections, details, and attachments to other work. Show frame profiles and blade profiles, angles, and spacing.
 - 1. Show weep paths, gaskets, flashings, sealants, and other means of preventing water intrusion.
 - 2. Show mullion profiles and locations.
- C. Samples: For each type of metal finish required.

1.4 INFORMATIONAL SUBMITTALS

- A. Product Test Reports: Based on evaluation of comprehensive tests performed in accordance with AMCA 500-L by a qualified testing agency or by manufacturer and witnessed by a qualified testing agency, for each type of louver and showing compliance with performance requirements specified.

- B. Windborne-debris-impact-resistance test reports.
- C. Sample Warranties: For manufacturer's special warranties.

1.5 QUALITY ASSURANCE

- A. Welding Qualifications: Qualify procedures and personnel in accordance with the following:
 - 1. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."

1.6 FIELD CONDITIONS

- A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1.7 WARRANTY

- A. Special Finish Warranty, Factory-Applied Finishes: Standard form in which manufacturer agrees to repair finishes or replace aluminum that shows evidence of deterioration of baked enamel, powder coat, or organic finishes within specified warranty period.
 - 1. Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Delta E units when tested in accordance with ASTM D2244.
 - b. Chalking in excess of a No. 8 rating when tested in accordance with ASTM D4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 - 2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain fixed louvers from single source from a single manufacturer where indicated to be of same type, design, or factory-applied color finish.

2.2 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Louvers withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated without permanent deformation of louver components, noise or metal fatigue caused by louver-blade rattle or flutter, or permanent damage to fasteners and anchors. Wind pressures are considered to act normal to the face of the building.

1. Wind Loads:
 - a. Determine loads based on pressures as indicated on Drawings.
- B. Louver Performance Ratings: Provide louvers complying with requirements specified, as demonstrated by testing manufacturer's stock units identical to those provided, except for length and width in accordance with AMCA 500-L.
- C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
 1. Temperature Change (Range): 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
- D. SMACNA Standard: Comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" for fabrication, construction details, and installation procedures.

2.3 FIXED FORMED-METAL LOUVERS

- A. Horizontal Drainable-Blade Louver, Formed Metal:
 1. Manufacturers: Subject to compliance with requirements, provide products by Custom Gable Vents or comparable products by one of the following manufacturers:
 - a. Air Balance; MESTEK, Inc.
 - b. Airolite Company, LLC (The).
 - c. Greenheck Fan Corporation.
 - d. Ruskin; Air Distribution Technologies, Inc.; Johnson Controls, Inc.
 2. Louver Depth: Manufacturer's standard depth.
 3. Louver diameter: 12 inches.
 4. Frame and Blade Material and Nominal Thickness:
 - a. Aluminum sheet, not less than 0.080-inch (2.03-mm) nominal thickness.

2.4 LOUVER SCREENS

- A. General: Provide screen at each exterior louver.
 1. Screen Location for Fixed Louvers: Interior face.
 2. Screening Type: Bird screening.
- B. Secure screen frames to louver frames with machine screws with heads finished to match louver, spaced a maximum of 6 inches (150 mm) from each corner and at 12 inches (300 mm) o.c.
- C. Louver Screen Frames: Fabricate with mitered corners to louver sizes indicated.
 1. Metal: Same type and form of metal as indicated for louver to which screens are attached.
 2. Finish: Same finish as louver frames to which louver screens are attached.
 3. Type: Rewirable frames with a driven spline or insert.

- D. Louver Screening for Aluminum Louvers:
 - 1. Bird Screening, Aluminum: 1/2-inch- (13-mm-) square mesh, 0.063-inch (1.60-mm) wire.

2.5 MATERIALS

- A. Aluminum Sheet: ASTM B209 (ASTM B209M), Alloy 3003 or 5005, with temper as required for forming, or as otherwise recommended by metal producer for required finish.
- B. Fasteners: Use types and sizes to suit unit installation conditions.

2.6 FABRICATION

- A. Factory assemble louvers to minimize field splicing and assembly. Disassemble units as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.
- B. Maintain equal louver blade spacing, including separation between blades and frames at head and sill, to produce uniform appearance.
- C. Fabricate frames, including integral sills, to fit in openings of sizes indicated, with allowances made for fabrication and installation tolerances, adjoining material tolerances, and perimeter sealant joints.

2.7 ALUMINUM FINISHES

- A. Finish louvers after assembly.
- B. Baked-Enamel or Powder-Coat Finish: AAMA 2603. Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.
 - 1. Color and Gloss: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.1 EXAMINATION

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

3.2 PREPARATION

- A. Coordinate setting drawings, diagrams, templates, instructions, and directions for installation of anchorages that are to be embedded in concrete or masonry construction. Coordinate delivery of such items to Project site.

3.3 INSTALLATION

- A. Locate and place louvers level, plumb, and at indicated alignment with adjacent work.
- B. Use concealed anchorages where possible. Provide brass or lead washers fitted to screws where required to protect metal surfaces and to make a weathertight connection.
- C. Form closely fitted joints with exposed connections accurately located and secured.
- D. Provide perimeter reveals and openings of uniform width for sealants and joint fillers, as indicated.
- E. Install concealed gaskets, flashings, joint fillers, and insulation as louver installation progresses, where weathertight louver joints are required. Comply with Section 079200 "Joint Sealants" for sealants applied during louver installation.

3.4 ADJUSTING AND CLEANING

- A. Clean exposed louver surfaces that are not protected by temporary covering, to remove fingerprints and soil during construction period. Do not let soil accumulate during construction period.
- B. Before final inspection, clean exposed surfaces with water and a mild soap or detergent not harmful to finishes. Thoroughly rinse surfaces and dry.
- C. Restore louvers damaged during installation and construction, so no evidence remains of corrective work. If results of restoration are unsuccessful, as determined by Architect, remove damaged units and replace with new units.
 - 1. Touch up minor abrasions in finishes with air-dried coating that matches color and gloss of, and is compatible with, factory-applied finish coating.

END OF SECTION