

**ADDENDUM NUMBER ONE**

**HCPS GUTTER/DS REPLACEMENT AT EHHS, HMS, & FES  
HENDERSON COUNTY  
HENDERSON COUNTY PUBLIC SCHOOLS**

MLA PROJECT NUMBER: 23003

Mark Lusk Architecture, PLLC  
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**DATE OF ISSUE: October 3, 2023**

**TO: ALL BIDDERS OF RECORD**

This Addendum modifies the Contract Documents only in the manner and to the extent stated herein and shown on any accompanying drawings and will become a part of the Contract Documents. Except as specified or otherwise indicated by this Addendum, all work shall be in accordance with the basic requirements of the Contract Documents.

BIDDERS SHALL ACKNOWLEDGE RECEIPT OF ADDENDUM ON BID FORM.

This Addendum consists of one page(s) and any enclosures noted:

**I. ENCLOSURES:**

1. Pre Bid Conference Report
2. 076200

**II. GENERAL INFORMATION / CLARIFICATIONS:**

1. See attached Pre Bid Conference Report
2. Permit requirements noted on each plan sheet is revised. Permits are not required for this project.

**III. CHANGES TO PROJECT MANUAL:**

1. 076200: Replace this section with attached revised section

**IV. CHANGES TO DRAWINGS:**

1. A201:
  - Provide transition boots for DS's to receiver pipe
  - 7'4" receiver pipe height is approximate and varies
  - Adjacent roofs noted are NIC
2. A202:
  - At front left location, the lower gutter section (14' AFG) extends under the upper gutter approximately 16 ft.
  - Note 9 - The D/S's are revised from 6"x4" to 6"x3"
  - Note 2 – revise first bullet to "Terminate D/S's into boot located at grade, remove and reinstall metal shields located near grade"

**END OF ADDENDUM**

# PRE-BID CONFERENCE

DATE: September 28, 2023  
LOCATION: Meeting at EHHS  
PROJECT: HCPS GUTTER/DS REPLACEMENT AT EHHS, HMS, & FES  
PROJECT #: 23003

## ATTENDING:

Bidder's List	See attached
Bryan Rhodes	Henderson County
Brian Cotton	Henderson County
Chad Dillon	HCPS
Mark Lusk	Mark Lusk Architecture

The following items shall be incorporated as part of the Contract Documents:

1. Pre Bid is mandatory with the list bidders qualified only to submit a bid.
2. Bid Date is October 11, 2023 at 2:00 PM at 246 Education Drive, Flat Rock, NC. The Bidder is responsible for the bid arrival by this time in specified envelopes. Bidder's questions may be submitted until October 4, 2023. Questions should be submitted by email as an RFI.
3. Bid bonds are required for bids \$500,000 or greater and P&P Bonds are required for contracts \$300,000 or greater. MBE forms must be submitted as required.
4. The substantial completion date is May 1, 2024. Liquidated damages are \$150/day. Extensions to the schedule must meet the requirements noted in the bid form and documentation submitted. The notice to proceed should be issued two weeks after bid date.
5. There is 1 Alternate:
  - Alt 1 – FES Gutter/DS replacement
6. The gutter design requirements shall be:
  - Box style seamless 0.032" thick pre finished aluminum
  - Expansion joints at 50ft apart max
  - Hangers 1 ½" wide x 0.063" thick 3105 alloy aluminum at 18" o/c
7. The following items are requirements during construction:
  - Coordination with school personnel and schedules (bus, etc.)
  - Employees must report for ID badges, must have state form of ID, must have clean record (no sex offenders, etc.)
  - Work schedule will be set at preconstruction and schedule changes (weekends etc.) should be submitted 48 hours in advance.
  - Staging area will be determined at the pre-construction. Reseeding and care to smooth out wheel tracks of disturbed areas are required. The grounds shall be kept clean with debris removed regularly and ladders removed each day.
  - Contractor shall provide temporary equipment, including portable toilet and power.
  - The permit requirement is revised. Permits are not required for this project.
8. The scope of the project was reviewed:
  - Dimensions are approximate, contractor shall verify.
  - The project was reviewed for scope at each location:

- EHHS the gutter/DS replacement is at the new gym and the office building and is base bid
  - HMS: only portions of the gutters/DS's shall be replaced as indicated and is base bid
  - FES gutter/DS replacement is the entire building except awnings
  - The adjacent roofs noted on A201 are NIC (not in contract)
  - EHHS: provide transition boots for DS's to receiver pipes
9. The sites were visited.



\*\*\*Addendum 1 includes entire Section

\*\*\***SECTION 076200 - SHEET METAL FLASHING AND TRIM**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

Section Includes:

Formed Products:

Formed roof drainage sheet metal fabrications.

1.3 PERFORMANCE REQUIREMENTS

General: Sheet metal flashing and trim assemblies as indicated shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight.

Thermal Movements: Provide sheet metal flashing and trim that allows for thermal movements from ambient and surface temperature changes.

1.4 SUBMITTALS

Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each manufactured product and accessory.

Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below:

1.5 DELIVERY, STORAGE, AND HANDLING

Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage. Store sheet metal flashing and trim materials away from uncured concrete and masonry.

Protect strippable protective covering on sheet metal flashing and trim from exposure to sunlight and high humidity, except to the extent necessary for the period of sheet metal flashing and trim installation.

\*\*\*Addendum 1 includes entire Section

## 1.6 WARRANTY

Special Warranty on Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace sheet metal flashing and trim that shows evidence of deterioration of factory-applied finishes within specified warranty period.

Exposed Panel Finish: Deterioration includes, but is not limited to, the following:

Color fading more than 5 Hunter units when tested according to ASTM D 2244.  
Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.  
Cracking, checking, peeling, or failure of paint to adhere to bare metal.

Finish Warranty Period: 10 years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 SHEET METALS

Refer to drawings.

Color: As selected by Architect from manufacturer's full range.

- Fasteners for Aluminum Sheet: Aluminum or Series 300 stainless steel.

Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.

### 2.2 FABRICATION, GENERAL

General: Custom fabricate sheet metal flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, geometry, metal thickness, and other characteristics of item indicated. Fabricate items at the shop to greatest extent possible.

Fabricate sheet metal flashing and trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.

Obtain field measurements for accurate fit before shop fabrication.

Form sheet metal flashing and trim without excessive oil canning, buckling, and tool marks and true to line and levels indicated, with exposed edges folded back to form hems.

Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces exposed to view.

Fabrication Tolerances: Fabricate sheet metal flashing and trim that is capable of installation to a tolerance of 1/4 inch in 20 feet on slope and location lines as indicated and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

Sealed Joints: Form nonexpansion but movable joints in metal to accommodate elastomeric sealant.

Expansion Provisions: Where lapped expansion provisions cannot be used, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with butyl sealant concealed

\*\*\*Addendum 1 includes entire Section

within joints.

## 2.3 ROOF DRAINAGE SHEET METAL FABRICATIONS

- A. Hanging Gutters: Fabricate to cross section indicated, complete with end pieces, outlet tubes, and other accessories as required. Furnish flat-stock gutter spacers fabricated from same metal as gutters, of size recommended by SMACNA but not less than twice the gutter thickness. Fabricate expansion joints, expansion-joint covers and gutter accessories from same metal as gutters.

Gutter Style: Box

- Expansion Joints: Lap type
- Gutters with Girth up to 15 Inches (380 mm): Fabricate from the following materials:
  - Aluminum: 0.032 inch (0.81 mm)] thick.
  - Seamless
- Gutter hangers fabricate from the following materials:
  - Aluminum: 1 ½" wide x 0.063 inch thick 3105 alloy aluminum .

- B. Downspouts: Fabricate rectangular downspouts complete with mitered elbows. Furnish with metal hangers, from same material as downspouts, and anchors.

Fabricated Downspout Hanger Style: SMACNA figure designation 1-35A

- Fabricate from the following materials:
  - Aluminum: 0.024 inch (0.61 mm) thick.

- C. Counter flashing: Fabricate from the following materials:
  - Aluminum: 0.032 inch (0.81 mm) thick.

## 2.4 INSTALLATION, GENERAL

General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, solder, welding rods, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.

Install sheet metal flashing and trim true to line and levels indicated.

Install sheet metal flashing and trim to fit substrates and to result in watertight performance.

Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.

Install exposed sheet metal flashing and trim without excessive oil canning, buckling, and tool marks.

Metal Protection: Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with bituminous coating or by other permanent separation as recommended by SMACNA.

## 2.5 ROOF DRAINAGE SYSTEM INSTALLATION

- A. General: Install sheet metal roof drainage items to produce complete roof drainage system according to SMACNA recommendations and as indicated. Coordinate installation of roof perimeter flashing with installation of roof drainage system.

\*\*\*Addendum 1 includes entire Section

- B. Hanging Gutters: Join sections with riveted and soldered joints or with lapped joints sealed with sealant. Provide for thermal expansion. Attach gutters at eave or fascia to firmly anchored gutter brackets spaced not more than 18 inches (900 mm) apart. Provide end closures and seal watertight with sealant. Slope to downspouts.

Fasten gutter spacers to front and back of gutter.

- Install gutter with expansion joints at locations indicated, but not exceeding, 50 feet (15.24 m) apart. Install expansion-joint caps.

- C. Downspouts: Join sections with 1-1/2-inch (38-mm) telescoping joints.

Provide hangers with fasteners designed to hold downspouts securely to walls. Locate hangers at top and bottom and at approximately 60 inches o.c. in between.

- Provide elbows at base of downspout to direct water away from building.
- Connect downspouts to underground drainage system indicated.

## 2.6 ERECTION TOLERANCES

- A. Installation Tolerances: Shim and align sheet metal flashing and trim within installed tolerance of 1/4 inch in 20 feet on slope and location lines as indicated and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.
- D. Installation Tolerances: Shim and align sheet metal flashing and trim within installed tolerances specified in MCA's "Guide Specification for Residential Metal Roofing."

## 1.2 CLEANING AND PROTECTION

. Clean and neutralize flux materials. Clean off excess solder.

- A. Clean off excess sealants.
- B. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed unless otherwise indicated in manufacturer's written installation instructions. On completion of installation, remove unused materials and clean finished surfaces. Maintain in a clean condition during construction.
- C. Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 076200