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ADDENDUM NO. 2

IFB 2018-04-517-PR
New Copper Gutter System and Related Work – Field 10 and 11
Laumeier County Park – Estate House Parks Project PB607
May 10, 2018

Per the terms of the Contract Bidding Documents, the following changes and clarifications in the Project Manual / Bid Specifications are for Bidders.

Item No. 2.1

Bidders are advised that the Bid Opening Date is hereby revised to Tuesday May 15, 2018 2:00 pm prevailing Central Time, per the terms and conditions of the Bid.

Item No. 2.2

In clarification and response to a request received May 7, this Addendum 2 provides a detail for the Gutter System (half round gutter, brackets and hangers, and attachments) to be provided as a part of this Bid (See attached detail, Gutter Detail dated 05 09 2018). This detail also notes to plug, patch and paint in matching color those existing fascia-mounted holes left by removal and replacement of the Copper Gutter System and Related Work in this Bid. See Technical Specifications Part 3 Products B.7 for Paint to be used.

Item No. 2.3

The 1993 File Drawing for Reference to the Add Alternate Bid Item #1 "Removal and Replacement of the existing Architectural Composition shingles with Slate Roofing, and, replacement of the aluminum guttering and downspouts with copper half round guttering for the eastern building addition to match the Estate House" to have been provided as part of Addendum No. 1 Item No. 1.4 (issued May 4, 2018) was omitted from Addendum No. 1 and is attached hereto, and made part of Addendum No. 2.

Item No. 2.4

A Revised Technical Specification TS Sheets 1-4 dated May 9, 2018 to clarify the Summary of Work and Addenda is attached hereto and made part of the Bid Documents.

Item No. 2.5

All other terms and conditions of the Bid remain.

This Addendum No. 1 is made part of the Bidding and Contracting Documents.

Bidder must acknowledge acceptance of this Addendum by signing and returning with the bid.

Failure to acknowledge this Addendum will render your bid as non-responsive.

END ADDENDUM NO. 2

I HEREBY ACKNOWLEDGE THAT I HAVE RECEIVED AND ADJUSTED MY BID ACCORDING TO THE IEMS AS DESCRIBED IN THIS ADDENDUM NO. 2, DATED May 10, 2018.

BY: _____

COMPANY: _____

DATE: _____

<http://www.stlouisco.com>

Existing Slate Roof -
See Specifications

New felt
See Specifications

Gutter brackets made from
1"x1/8" copper bar
@ 9' +/- on center

Gutter hanger
fab from 20 oz
copper

copper rivet

1"

3"

Existing roof deck

1 1/2" copper nail
staggered at 6" o.c.

1 1/2" brass screw

Existing fascia

16 oz. copper gutter
shop fabricated in 10' lengths
to match existing

5"

6"

NOTE:

Plug, Patch and paint
former fascia mounted
screw holes from gutter
system to be replaced as
part of the Base Bid.

Gutter Detail

IFB 2018-04-517-PR

REPLACE COPPER GUTTER SYSTEM
AND RELATED WORK - LAUMEIER
COUNTY PARK ESTATE HOUSE
ADDENDUM 2 ITEM 2.2
05 09 2018 PDA

SECTION ADDN

EAST ELEV. ADDN.

NO 12

NOTE: SC. 1/4" = 1'-0"

(2) 16d NAIL @

RAFTER & JOIST

TO EA STUD OF 2X6 CL. JOIST

EXIST. WALL @ 24" OC

SHIELD
& LAP

EXIST. STUCCO/WD TRIM
CUT, WALL-INSTALL
8" ALUM. SHG. FLASH
ADD. 6" TRIM BOARDS

5" BLACK
ALUM. GUTT

18 GA 5/8 MET STUDS
@ 16" OC
5/8 TYP FB 'X' DRY
- EXL GYP SHEET
STUCCO TO RD
WOOD BATTENS

ST. COL
N 5/8
(2) HR.
ULTRA CODE

GLUE/SCREW
2X6 SUP (DINPHRAN)
@ 16" OC
EXIST GNEWSDCL
2X12

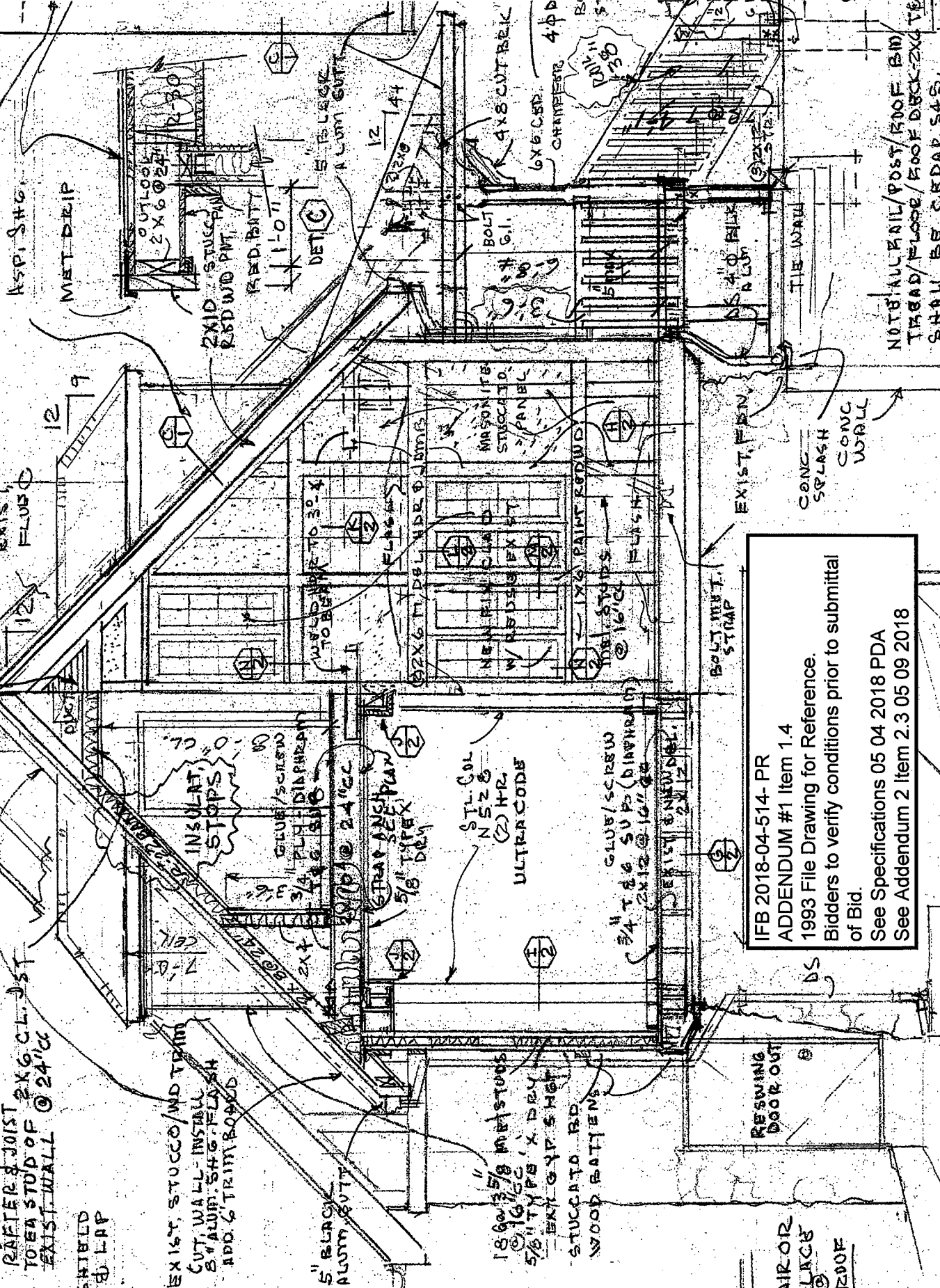
RESWING
DOOR OUT

NIROR
LACE
ROOF

IFB 2018-04-514- PR
ADDENDUM #1 Item 1.4
1993 File Drawing for Reference.
Bidders to verify conditions prior to submittal
of Bid.

See Specifications 05 04 2018 PDA

See Addendum 2 Item 2.3 05 09 2018



PRINT ALUM 3/8" SC. 1/4" = 1'-0"
SCR. LOUVER VENT
EXIST.
FLUSH

ASP. SHG.

MET DRIP

OUTLOOK
2X6 @ 24"

2XID STUCCO
RED WD PMT.

RED BATT

11-0"

DET

5 BLACK
ALUM GUTT

12

12

12

12

12

12

12

12

12

12

12

12

12

12

12

12

12

12

12

12

12

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12

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12

12

12

12

12

4X8 CUTBK

6X6 CER. 4DD

CHIFFESTE

35-1011

6X6 CER. 4DD

CHIFFESTE

35-1011

6X6 CER. 4DD

CHIFFESTE

35-1011

6X6 CER. 4DD

CHIFFESTE

35-1011

6X6 CER. 4DD

CHIFFESTE

35-1011

6X6 CER. 4DD

CHIFFESTE

35-1011

NOTE: ALL NAIL/POST/ROOF BM/ TRAD/FLORE/ROOF DECK-2X4 TE SHALL BE CEDAR S4S.

Technical Specifications

**REPLACE COPPER GUTTER SYSTEM & RELATED WORK
LAUMEIER COUNTY PARK – ESTATE HOUSE
(Parks Project Number PB607)****PART 1 – GENERAL**

- A. Scope of work is to Remove and Replace the Gutter System and related work for the Estate House Building located in Laumeier County Park 12528 Rott Road 63127, and, to furnish and install the system, including Gutters, Conductor heads, down spouts, accessories, and, to remove and reset the slate roof shingles as required to complete the gutter system replacement per these specifications.
- B. Vendor is required to perform field measurements to verify dimensions and verify existing conditions and determine quantities for Bid. St. Louis County Parks and Recreation project representative shall be present for the field measurements by the vendor. Contractor shall submit shop drawings and obtain county approval prior to fabrication for new gutters and downspouts, and, other related metal fabrications.
- C. Project Completion is required within SIXTY (60) consecutive calendar days of Notice to Proceed: Coordinate all work with the Parks on-site representative Nick Lang at 314-821-5228. The Laumeier Estate House will be open to the public during construction work. A temporary construction fence or other approved safety devices must be in place and all necessary measures to protect the public and employees during construction are to be provided as a part of this Technical Specification and will be enforced by County.
- D. The General Contractor shall be responsible for any damage due to existing or newly installed finishes during the course of work. The General Contractor shall repair or replace damaged materials at the County's discretion.

PART 2 – TECHNICAL SPECIFICATIONS

- A. Submittals
1. Shop drawings showing fabrication and installation of copper gutters and downspouts, and slate shingle removal and reinstallation including plans, elevations, sections, details of components and attachments shall be prepared by the vendor to insure accuracy of work. Size and shape of metal gutters and downspouts must replicate the existing per Detail provided. Color and type of any new slate roofing shingle shall match existing slate.
 2. Vendor shall submit actual samples of work to the County prior to fabrication and installation. Samples of the roofing slate, flashings, sheet metal, and accessory items shall be furnished to County for approval prior to procurement.
 - a) 12-inch-square samples of specified sheet materials to be expected in finish work.
 - b) Sample of each color, type and size for replacement slate shingles.
 - c) Product data, roof sheathing and felts/membrane, Sheet Metal and flashings, and Accessories: Manufacturer's technical product data,

installation instructions and general recommendations for each specified sheet material and fabricated product.

B. Quality Assurance

1. Single source responsibility: Obtain all components, material, and accessories from on single source for each product. Furnish a Certificate of Country of Origin for each slate type identifying the country in which the slate shingles were quarried and fabricated. Furnish Material Test Reports for each slate type, performed by a qualified testing laboratory.
2. Engineering responsibility: The vendor shall be responsible for the design and detailing of products to reproduce the historic period of which the building was originally built per the Detail provided for the half-round copper gutter system. Any Replacement slate shall match the visual qualities of the existing slate roofing in size, color, type and patterning. Replacement gutters and downspouts must match the existing size, shape and material including accessories, per Detail provided.
3. Restoration Specialist: Work must be performed by a firm having not less than 5 years successful experience in comparable restoration projects and employing personnel skilled in the restoration processes and operations indicated.

C. Project Conditions

1. Field measurements: Check actual dimensions of slate shingles, gutters and downspouts before fabrications. **Record existing measurements of materials for fabrications and provide to County.** Show recorded measurements and shape of each product on the final shop drawings. County approval is required prior to fabrication.
2. Coordinate work of this section with interfacing and adjoining work for proper sequencing of each installation. Ensure best possible weather resistance and durability of work and protection of materials and finishes.

PART 3 – PRODUCTS

A. Manufacturers/Distributors

1. Subject to compliance with the requirements of this specification, provide replacement slates as required as furnished by the following providers, or County approved equals:
 - a) Evergreen Slate Company, Inc., Granville, NY
 - b) Rising & Nelson, Middle Granville, NY
 - c) New England Slate Co., Poultney, VT
 - d) Diamond Building Products, LLC, Savannah, GA

B. Slate Shingle Roofing to achieve Installation of Copper Gutter System and Related Work

1. Commercial Standard Slate: ASTM C406, Type S-1 grade, nominal 1/4" inch thickness with smooth texture and 12-inch width and of matching length, "Vermont Black" or "Grey/Black Unfading" color, and/or as selected by Architect, to match existing. Replacement slate shall match the visual qualities of the

existing roof slate in size, color, texture and patterning. Vertical overlap to match existing with a standard 3" headlap. Each slate to be punched with two (2) nail holes. Furnish matching Hip and Ridge cap slates as required. Furnish distributor warranty for slate shingle specified.

2. Asphalt-Saturated Felt Underlayment: ASTM D 2626 or ASTM D 4869 for steep roofing. Apply minimum 43# asphalt felts for commercial standard slates, and per manufacturer's recommendations and requirements. Furnish additional 43# asphalt felt sheet for Ice Dam Protection.
 3. Nail Fastening: Large head, Slaters' hard copper wire nails, cut copper or brass fasteners. Nails shall be a minimum of 1-inch longer than thickness of slate. Cover all heads with elastic cement.
 4. Point all hip and ridge slates with elastic cement as required.
 5. New Roof Sheathing shall be exterior grade, CD-APA Rated ½ inch thick, exterior glue, treated AWPI PL-2. See Allowances to be provided as part of Bid.
 6. Fascia as required and provided shall be 1 by 8, exterior grade, preservative treated 19% moisture after treating, No. 2 Grade Douglas Fir or Southern Pine. See Allowances to be provided as part of Bid.
 7. Paint for exposed Fascia and Rafters that are to be replaced shall have one (1) coat of paint primer and two (2) finish coats. Paint material be exterior acrylic enamel, as manufactured by Benjamin Moore – Moorecraft Super Spec House and Trim Paint No. 170, M.A.B. Paint-Sea Shore/Four Seasons Acrylic Enamel 024 Line, Sherwin Williams A-100 A8 Series, or, equal. Prepare and apply per manufacturer's recommendations.
- C. Sheet Metal Flashing and Trim Materials
1. Copper: ASTM B 370; temper H00 (cold-rolled) except where temper 060 is required for forming; 16 oz/ (0.0216-inch thick) except as otherwise indicated. Finish all hip and ridge with 16 oz. copper to match existing profile, as required.
 2. Metal Accessories: Provide sheet metal clips, straps, anchoring devices, and similar accessory units as required for installation of work, matching or compatible with material being installed, non-corrosive, size and gauge required for performance.
 3. Shape of formed copper gutters shall match existing gutters shape and size being replaced (See Detail May 9, 2018 – Addendum No. 2). Replacement sections of gutter shall match existing shape and size of gutter being replaced. Replacement sections of downspout shall match existing shape and size of downspout replaced. Copper basket strainers shall be installed at all downspouts. All downspouts shall be securely fastened to masonry wall with copper straps anchored in the mortar joint. Existing straps shall be replaced per (See Detail May 9, 2018 – Addendum No. 2). All downspouts must empty into existing drain. ~~Contractor will be responsible to assure proper disbursement of storm water with the use of splash blocks, where necessary.~~

4. Gutter Bracket Hanger: Gutter stays and roof support straps to be shop fabricated from 1" x 1/8" copper bar stock and 20 oz. copper respectively and spaced to match existing spacing or closer to support new Gutter System, per Detail. Metal fabrications of another material other than copper shall be PVC coated to eliminate corrosion between materials. **Any substitution for copper gutter brackets must be approved by Owner. Replace all brackets and where existing bracket is missing, damaged or deteriorated.**
5. Provide new Copper Apron Flashing for drip edge. Re-Use existing wood Moulding behind gutters.
6. Asphalt Saturated Felt: Apply 43# asphalt felts at all hips and ridge junctions as required for preparation for new copper flashings and at eaves for ice & water barrier at gutter lines where gutters are to be installed. Install 1-layer of felts over entire roof field.
7. Solder: for use with steel of copper, provide 50-50 tin/lead solder (ASTM B 32), with rosin flux or as code requirements permit.

PART 4 – EXECUTION

A. Installation Requirements

1. General: Except as otherwise indicated, comply with slate shingle distributor's recommendations on preparation of roof deck and Re-installation, replacement or installation of shingle, and comply with manufacturer's installation instructions and recommendations and with SMACNA "Architectural Sheet Metal Manual." Anchor units of work securely in place by methods indicated, providing for thermal expansion of units; conceal fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints and seams that will be permanently watertight and weatherproof.
2. Verify existing deck surfaces are sound, smooth, properly secured and free of ridges, depressions and voids, and dry. Prepare existing roof deck as required prior to installation of the new (Add Alternate Bid Item No. 1) or replacement slate roofing to achieve new Copper Gutters System and Related Work. See Allowances to be provided as part of Bid.
3. All gutters must slope to the downspouts. The Contractor will be responsible to maintain a slope of 1/16" per foot to the downspouts from all gutters and/or match existing. **Replace and secure wood fascia boards, as required, and secure existing wood molding prior to installing gutters as required.**
3. Removal of existing slate roofing, metal flashings and damaged guttering from site shall be a part of this work. All debris shall be hauled away from site for appropriate disposal off-site by the Contractor. Debris shall be removed from the site on a daily basis.

B. Cleaning and Protection

1. Clean exposed metal surfaces, removing substances that might cause corrosion of metal or deterioration of finishes.
2. Protection: Contractor shall perform procedures for surveillance and protection of flashings and sheet metal work during construction to ensure that work will be without damage or deterioration other than natural weathering at time of Substantial Completion.
3. Clean all leaves and debris from existing gutters remaining and flush all downspouts.

PART 5 – WARRANTY**A. Product**

1. Furnish product manufacturer's and/or distributors standard 100-year limited warranty for slate roofing products.

- B. Roofing Installer's Warranty:** Vendor shall provide a minimum one (1) year guarantee for workmanship for work specified from the date of substantial completion, and the distributor's standard warranty and extended material warranties provided for this project.

END TECHNICAL SPECIFICATIONS