

## Addendum No. 3

DATE: August 29, 2018

Project: *WHA Job No. 2017-07*  
**Phase IV - Building Improvements**  
**MA 12-1 Great Brook Valley Gardens**

In accordance with documents prepared by: *The Worcester Housing Authority.*

TO: ALL PLANHOLDERS--BIDDERS--PROPOSERS--CONTRACTORS

This Addendum No. 3 forms part of and modifies the Construction Documents dated July 2018. Acknowledge receipt of all *Addenda* in paragraph B on the FORM FOR GENERAL BID. **Failure to do so may subject the bidder to disqualification.**

The attention of bidders submitting bids for the above subject project is called to the following addendum to the specifications and drawings. The items set forth herein, whether of omission, addition, substitution, or clarifications are all to be included in and form a part of the bid submitted.

This Addendum consists of ITEMS 1 – 4 and Attachment A, which are hereby incorporated into the Bidding Documents:

### GENERAL

#### ITEM NO. 1: TABULATION OF FILED SUB-BIDS:

File Sub-Bids were received on Thursday, August 23, 2018, as follows:

A. Section 040100 Maintenance of Brick Masonry					
	CONTRACTOR	BASE BID AMOUNT	ADD ALTERNATE 1	ADD ALTERNATE 2	RESTRICTIONS
1.	Homer Contracting, Inc.	\$93,000	\$10,000	\$5,000	Homer only
2.	Commercial Masonry Corp.	\$121,914	\$7,944	\$11,189	No
3.	Chapman Waterproofing Company	\$122,000	\$10,100	\$7,000	No
4.	Armani Restoration Inc.	\$155,000	\$8,000	\$19,980	No
5.	Costa Brothers Masonry Inc.	\$231,000	\$25,000	\$20,000	No
6.	Folan Waterproofing & Const. Co., Inc.	\$234,000	\$17,100	\$23,400	No
7.	Heckman Masonry, Corp.	\$269,000	\$20,000	\$19,000	No
8.	Kenney Masonry, LLC.	\$404,818	\$42,612	\$23,050	No

B. Section 260000 Electrical					
	CONTRACTOR	BASE BID AMOUNT	ADD ALTERNATE 1	ADD ALTERNATE 2	RESTRICTIONS
1.	Hub Electric Inc.	\$30,000	\$2,000	\$2,000	GTC Construction

**REVISION TO SPECIFICATIONS:**

**ITEM NO. 2:** SECTION 050513- SHOP-APPLIED COATING FOR METAL  
DELETE: Entire *item A* from 1.02 WORK TO BE PERFORMED  
INSERT: A. This Section specifies factory-applied metal coatings including the following:  
1. The Basis of design is Hot-dip galvanizing for iron and steel fabrications with a factory-applied High Performance Polyamide Epoxy Powder Primer and Super Durable Powder Urethane topcoat.

**ITEM NO. 3:** SECTION 050513- SHOP-APPLIED COATING FOR METAL  
DELETE: Entire PART 2 – PRODUCTS  
INSERT: New PART 2 – PRODUCTS (Attachment A)

**EMAIL QUESTIONS/CLARIFICATIONS:**

**ITEM NO.4:** QUESTIONS/CLARIFICATIONS:

1. Question: I would like to provide you with our Model 2000 specs and drawing for your review as an approved equal. Please, advise.  
*Response: This is a public procurement project and, therefore, "or equal" products may be submitted according to the specification and the law. Please note, substitutions may not be approved if they, at the sole discretion on the Architect, do not meet the requirements of the spec. Failure to submit an approved "or equal" product does not absolve the contractor of the requirement to meet the schedule. We do not approve "or equal" products during the bid process.*

2. Question: Regarding the chimney metal corner guards- Det 8/A.17 and in Section 055500 of the specifications calls out "powder Coated to match existing Brick", However, section 050513 which also references "metal corner guards" details an entirely different process.  
Will you please clarify which is the correct specification?

*Response: The correct is powder coating to match existing brick. See items 2 and 3, and attachment A on this addendum.*

All other terms and conditions of these contract documents remain unchanged.

Attachments: A). PART 2 – PRODUCTS of Section 050513- Shop-applied Coating for Metal.

**FAILURE TO ACKNOWLEDGE THIS ADDENDUM ON YOUR BID FORMS  
MAY BE CAUSE FOR BID REJECTION.**

**END OF ADDENDUM No. 3**

**ATTACHMENT "A"**

PART 2 – PRODUCTS

2.01 SECTION INCLUDES

1. This Section specifies factory-applied metal coatings including the following:
  1. Hot-dip galvanizing for iron and steel fabrications with a factory-applied High Performance Polyamide Epoxy Thermosetting Primer and Super Durable Thermosetting Urethane topcoat.
2. Hot- Hot-Dip Galvanizing: For steel exposed to the elements, weather or corrosive environments and other steel indicated to be galvanized, provide coating for iron and steel fabrications applied by the hot-dip process. Galvanizing bath shall contain special high grade zinc and other earthly materials.
  1. Comply with ASTM A 123 for fabricated products and ASTM A 153 for hardware.
  2. Provide thickness of galvanizing specified in referenced standards.
  3. Fill vent holes after galvanizing if required, and grind smooth.
  4. All exposed galvanizing shall be blasted per SSPC SP16 to achieve a 1-3 mile profile. Inaccessible areas shall be abraded per SSPC SP2 or SP3 to achieve a 1-3 mil profile and to remove all runs, drips and sags.
  5. Galvanizing shall exhibit a rugosity (smoothness) of less than 25 microns when measured by a profilometer. This pertains to those elements that are less than 24 pounds per running foot. Profilometer shall be capable of operating in 1 micron increments.
  6. Basis of design is Colorgalv® Thermoset or approved equal.
- C. Primer over Galvanized Steel: Provide factory-applied polyamide thermosetting epoxy prime coat over hot-dipped galvanized steel.
  1. Primer shall be a polyamide epoxy powder primer with 0 VOC.
  2. Apply primer within 12 hours after galvanizing or blasting at the same galvanizer's plant in a controlled environment meeting applicable environmental conditions and as recommended by the primer coating manufacturer. Cure schedule shall be as recommended by the manufacturer.
  3. Polyamide epoxy powder primer shall be applied at 1.8-3 mils DFT and certified OTC/VOC compliant and conform to EPA and local requirements.
  4. Polyamide epoxy powder primer shall meet or exceed the following performance criteria as stipulated by the coatings manufacturer:
    - a. Cure Schedule: 10 min. at 400°F
    - b. Specific Gravity: 1.60 +/- .05
    - c. Coverage at 1.0 Mil 120.4 sq. ft./ lb.
    - d. 60° Gloss: 53-67 (ASTM D-523)
    - e. Adhesion: 5B (ASTM D-3359)
    - f. Flexibility: Pass 1/8 " Mandrel Bend (ASTM D-522)
    - g. Pencil Hardness: 2H-3H (ASTM D-3363)
    - h. Impact Resistance: 80 in-lbs direct (ASTM D-2794) 80 in-lb reverse
    - i. Typical Environmental Properties on 20 gauge Bonderite 1000 Panels

- 1) Salt Spray 1000 hours (ASTM B-117) max 1/8" creepage
  - 2) Humidity 1000 hours (ASTM D-4585) Slight gloss and color change
5. Basis-of-Design: Duncan Primergalv® Thermoset or approved equal.

D. Topcoat: Provide factory applied Super Durable Urethane powder topcoat in specified color and gloss range per approved samples.

1. Super Durable Urethane Powder Topcoat shall be applied over primer per the manufacturer's recoat schedule at the same galvanizer's plant in a controlled environment meeting applicable environmental conditions as recommended by the coating manufacturer. Cure schedule shall be as recommended by the manufacturer.
2. Super Durable Urethane Powder Topcoat shall be applied at 1.8-3 mils DFT and certified OTC/VOC compliant and conform to EPA and local requirements.
3. Super Durable Urethane Powder Topcoat shall meet or exceed the following performance criteria as stipulated by the coatings manufacturer:
  - a. Specific Gravity: 1.58 +/- .05
  - b. Coverage at 1.0 Mil 121.7 sq. ft./ lb.
  - c. 60° Gloss: 55-65 (ASTM D-523)
  - d. Adhesion: 5B (ASTM D-3359)
  - e. Flexibility: Pass 1/8 " Mandrel Bend (ASTM D-522)
  - f. Pencil Hardness: 2H-3H (ASTM D-3363)
  - g. Impact Resistance: 80 in-lbs direct (ASTM D-2794) 80 in-lb reverse
  - h. Typical Environmental Properties: On Bonderite 1000 Panels
    - 1) Salt Fog 1000 hours (ASTM B-117)
    - 2) Salt Fog (top-coated)\* 5000+ hours (ASTM B-117)
    - 3) Humidity 1000 hours PASSED

E. Warranty: Provide galvanizer's standard warranty that materials will be free from 10 percent or more visible rust for 20 years.