



**ADDENDUM NO. 2**  
**Alterations to Braswell Homes**  
**Bessemer Alabama Housing Authority**  
**Bessemer, Alabama**  
**ADA No. 1592**  
**February 12, 2020**

This Addendum to drawings and specifications for above referenced project supersedes all contrary and conflicting information contained in said drawings and project manual. Said drawings and project manual are hereby amended in the following particulars and are in full force as part of this contract.

**1. Changes to Project Manual:**

- a. ADD the attached: SECTION 074113.16 – STANDING – SEAM METAL ROOF PANELS
- b. SECTION 084113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS: Paragraph 3.4 Entrance Door Hardware Sets: ADD the following paragraph:

“3.4 ENTRANCE DOOR HARDWARE SETS

<b>Hardware Set #AL-1</b>				
<b>Door Nos. 05, 20</b>				
3	Butt Hinge			
1	Panic Exit Device with lever handle on pull side			
1	Strike			
1	Cylinder Housing			
1	Lock Cylinder	Compatible with Section 087100		
1	Surface Mounted Closer			
1	Floor Stop			
1	Weatherstripping			
Balance of hardware by door supplier				
Finishes compatible with clear anodic finish				



c. SECTION 087100 DOOR HARDWARE: Paragraph 3.4 Community Center Door Hardware Schedule: ADD the following Paragraph:

“3.4 COMMUNITY CENTER DOOR HARDWARE SCHEDULE”

<b>Provide Grade 1 Hardware</b>		
	<b>HW SET: C1</b>	<b>Door 01</b>
3	Hinges	
1	Deadlock	
1	IC Core, Keyed	
1	Passage Set	Lever handle
1	Floor Stop	
1	Threshold	ADA
1	Set Seals	
1	Door Sweep	
1	Viewer	
1	Surface Mounted Closer	
	<b>HW SET: C2</b>	<b>Door 02 (Pair)</b>
6	Hinges	
1	Deadlock	
1	IC Core, Keyed	
1	Passage Set	
1	Head Flush Bolt at inactive leaf	
1	Sill Flush Bolt at inactive leaf	
1	Astragal	
2	Floor Stop	
1	Threshold	
2	Set Seals	
2	Weatherstripping	
2	Door Sweep	
1	Viewer	
1	Rain Drip	
	<b>HW SET: C3</b>	<b>Door 03</b>
3	Hinges	
1	Panic Exit Device with Deadlock on pull side	
1	Strike	
1	Pull Handle	
1	IC Core, Keyed	
1	Surface Mounted Closer	

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1	Weatherstripping	
1	Door Sweep	
1	Viewer	
1	Rain Drip	
	<b>HW SET: C4</b>	<b>Door 04 (Pair)</b>
6	Hinges	
1	Panic Exit Device with Lever Handle Latch on pull side	
1	Strike	
1	IC Core, Keyed	
2	Surface Mounted Closer	
1	Head Flush Bolt at inactive leaf	
1	Sill Flush Bolt at inactive leaf	
1	Astragal	
2	Set Seals	
2	Weatherstripping	
1	Threshold	ADA
1	Viewer	
2	Door Sweep	
2	Floor Stop	
	<b>HW SET: C5</b>	<b>Doors 05, 20</b>
1	IC Core, Keyed	
	Refer to Section 084113 for remainder	
	<b>HW SET: C6</b>	<b>Door 06</b>
3	Hinges	
1	Lockset	IC Core, Keyed, Lever handle
1	Floor Stop	
1	Kick Plate	
	Mutes	
	<b>HW SET: C7</b>	<b>Doors 07, 08, 13, 14</b>
3	Hinges	
1	Lockset	IC Core, Keyed, Lever handle
1	Floor Stop	
	Mutes	

	<b>HW SET: C8A</b>	<b>Door 08A</b>
3	Hinges	
1	Passage Set	Lever handle
1	Deadlock	
1	Floor Stop	
1	IC Core, Keyed	
1	Set Seals	
1	Weatherstrip	
1	Sweep	
	Mutes	
	<b>HW SET: C9</b>	<b>Doors 09, 12</b>
3	Hinges	
1	Push Plate	
1	Pull	
1	Surface Mounted Closer	
2	Kick Plate	
1	Floor Stop	
	Mutes	
	<b>HW SET: C10</b>	<b>Door 10 (Pair)</b>
6	Hinges	
1	Lockset	IC Core, Keyed, Lever handle
1	Head Flush Bolt at inactive leaf	
1	Sill Flush Bolt at inactive leaf	
1	Astragal	
	Mutes	
	<b>HW SET: C15</b>	<b>Door 15</b>
3	Hinges	
1	Lockset	IC Core, Keyed, Lever handle
1	Surface Mounted Closer	
1	Kick Plate	
1	Floor Stop	
	Mutes	

d. SECTION 099113 EXTERIOR PAINTING: Paragraph 3.5 Exterior Painting Schedule: ADD the following Paragraph:

“C. Clay Masonry and Painted CMU Substrates:



1. Latex System MPI EXT 4.1A:
  - a. Prime Coat: Latex, exterior, matching topcoat.
  - b. Intermediate Coat: Latex, exterior, matching topcoat.
  - c. Topcoat: Latex, exterior, low sheen (MPI Gloss Level 3-4), MPI #15.
2. Maximum moisture content of substrate when measured with an electronic moisture meter: 12 percent.”

## 2. Changes to Drawings:

a. SHEETS A2.1, A2.2 and A2.3: FLOOR PLANS Building Types E, F and G: CLARIFICATION: In the center units, the existing HVAC Closet is located in the front corner of the Kitchen. Refer to Sheets MP2.1, MP2.2 and MP2.3.

b. SHEET A10.2 GENERAL FLOOR PLAN NOTE 1: CHANGE .....“All signage is to remain in place and be protected during the renovation.” to “Remove and replace all existing Toilet Room Signs at Rooms 103, 104, 109 and 110.”

c. SHEET A10.4 COMMUNITY CENTER DOOR SCHEDULE: CHANGE the Door Type from B to C at Door Numbers 13 and 14.

d. SHEET A10.5: TYPICAL CORNICE 7/A10.5: ADD the following notes: “1. Roof and associated Drip Edge is existing standing seam metal roof. 2. Replace existing fascia metal and vinyl soffit. Refer to Siding and Trim Schedule on Sheet A10.6.”

e. SHEET A10.5: WALL SECTION AT GARAGE 8/A10.5: ADD the following notes: “1. Roof and associated Drip Edge is new standing seam metal roof over underlayment over new roof deck and framing. 2. Wrap new fascia with new fascia metal and install new vinyl soffit. Refer to Siding and Trim Schedule on Sheet A10.6.”

f. SHEET A10.6 COMMUNITY CENTER EXTERIOR ELEVATIONS: ADD the following: “Exterior Elevation Notes: 1. Prepare and paint all existing brick surfaces in a color to be selected. 2. Prepare and paint existing CMU at the front porch recess, in a color to be selected, different from the brick color. 3. Replace existing eave soffit material. 4. Replace existing eave fascia metal. 5. Replace existing vinyl siding at porch and stoop gables. 6. Refer to Siding and Trim Schedule.”

g. SHEET A10.6: ELEVATIONS 3/A10.6 and 4/A10.6: CHANGE “Triple 2” Beaded Board” to “Vertical Siding”.

h. SHEET A10.6: ELEVATION 4/A10.6: CHANGE “Exist. Fenced Enclosure Metal Roof to Remain” to “New Metal Panels on Existing Framing”.

i. SHEET MP1.2: PLUMBING FIXTURE CONNECTION SCHEDULE: CHANGE fixture LV-1 from Zurn Z5110 to Kohler K-2699 (white; Dimen. 20 1/8” L x 16 1/2” W).



j. SHEET MP1.2: PLUMBING FIXTURE CONNECTION SCHEDULE: CHANGE fixture LV-2 from Kohler K-2699 to Zurn Z5830 (white; Dimen. 19" L x 17" W).

### 3. Questions from Bidders:

1. Can the abatement and window install crew work independent of the renovation crew to increase production. If so how many windows will we be allowed per day?

**Response:** They may work independently of the renovation crew if that is part of the Contractor's approved phasing plan. (Refer to Sheet A0.1 PHASING note C.)

2. Since testing will be controlled by the owners Hygienist is there any guarantee on the return time of the results ?

**Response:** The Hygienist will be required to provide results on the same day, subject to a reasonable cut-off time for requesting a test.

3. Can the new windows be installed before results have come back?

**Response:** No. It is anticipated that the Hygienist will need about an hour to read samples following abatement activities for each unit.

4. Note the schedule for abatement. Work hours 8-4. We have to allot time for clearance testing to be done twice in 1 day. The first time, for whatever we get done in the morning shift, and the second set on the units we get done in the afternoon. We don't control how much time they need to run testing.

**Response:** It is anticipated that the Hygienist will need about an hour to read samples following abatement activities for each unit. Units/Areas will be tested/cleared as work progresses.

5. Asbestos testing usually requires pulling air through a pump for an hour. It may take another half hour or hour to read the samples. So best case is that we have 5.5 hrs/day to work.

**Response:** Yes.

6. Also note that lead clearance wipe testing can NOT be analyzed on site. Samples will need to be sent to a lab. Even if sent overnight, the best case is that results will return in 36 hrs. Are they going to let the installer work around the windows and doors without having results of lead clearance testing? Are they going to let residents return to the units without having the lead results?

**Response:** Yes. Work will be on the exterior of the unit. It is expected that a portion of the number of units will be tested and that not each unit will be tested for lead.

### End of Addendum No. 1

Attachment: SECTION 074113.16 – STANDING – SEAM METAL ROOF PANELS (Addendum No. 2)

## SECTION 074113.16 - STANDING-SEAM METAL ROOF PANELS

### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section Includes:

1. Standing-seam metal roof panels.

#### 1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at **Project site**.

#### 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
- C. Samples: For each type of metal panel indicated.

#### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

#### 1.5 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.
1. Warranty Period: Five years from date of Substantial Completion.
- B. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
1. Finish Warranty Period: **10** years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E1592:
  - 1. Wind Loads: As indicated on Drawings.
- B. Wind-Uplift Resistance: Provide metal roof panel assemblies that comply with UL 580 for wind-uplift-resistance class indicated.
  - 1. Uplift Rating: **UL 60**
- C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
  - 1. Temperature Change (Range): **120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.**

### 2.2 STANDING-SEAM METAL ROOF PANELS

- A. Provide factory-formed metal roof panels designed to be installed by lapping and interconnecting raised side edges of adjacent panels with joint type indicated and mechanically attaching panels to supports using concealed clips in side laps. Include clips, cleats, pressure plates, and accessories required for weathertight installation.
  - 1. Steel Panel Systems: Unless more stringent requirements are indicated, comply with ASTM E1514.
- B. Vertical-Rib, Snap-Joint, Standing-Seam Metal Roof Panels: Formed with vertical ribs at panel edges and **intermediate stiffening ribs symmetrically spaced in a flat pan** between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under one side of panels, engaging opposite edge of adjacent panels, and snapping panels together.
  - 1. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A653/A653M, **G90 (Z275)** coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A792/A792M, **Class AZ50 (Class AZM150)** coating designation; structural quality. Prepainted by the coil-coating process to comply with ASTM A755/A755M.
    - a. Nominal Thickness: **0.034 inch (0.86 mm).**
    - b. Exterior Finish: **Two-coat fluoropolymer.**
    - c. Color: Match existing.



2. Clips: **One-piece fixed, Two-piece floating** to accommodate thermal movement.
  - a. Material: **0.064-inch- (1.63-mm-)** nominal thickness, zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet.
3. Panel Coverage: **16 inches (406 mm)**. Verify to match existing.
4. Panel Height: **1.75 inches (44 mm)**. Verify to match existing.

## 2.3 UNDERLAYMENT MATERIALS

- A. Self-Adhering, High-Temperature Underlayment: Provide self-adhering, cold-applied, sheet underlayment, a minimum of **30 mils (0.76 mm)** thick, consisting of slip-resistant, polyethylene-film top surface laminated to a layer of butyl or SBS-modified asphalt adhesive, with release-paper backing. Provide primer when recommended by underlayment manufacturer.
  1. Thermal Stability: Stable after testing at **240 deg F (116 deg C)**; ASTM D1970.
  2. Low-Temperature Flexibility: Passes after testing at minus **20 deg F (29 deg C)**; ASTM D1970.

## 2.4 MISCELLANEOUS MATERIALS

- A. Miscellaneous Metal Subframing and Furring: ASTM C645; cold-formed, metallic-coated steel sheet, ASTM A653/A653M, **G90 (Z275 hot-dip galvanized)** coating designation or ASTM A792/A792M, **Class AZ50 (Class AZM150)** coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.
- B. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.
  1. Closures: Provide closures at eaves and ridges, fabricated of same metal as metal panels.
  2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
  3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum **1-inch- (25-mm-)** thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
- C. Drip Edge, Flashing and Trim: Provide drip edge, flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, eaves, rakes, corners, bases, framed openings, ridges, fasciae, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.

- D. Panel Fasteners: Self-tapping screws designed to withstand design loads.
- E. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.
  - 1. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing; **1/2 inch (13 mm)** wide and **1/8 inch (3 mm)** thick.
  - 2. Joint Sealant: ASTM C920; as recommended in writing by metal panel manufacturer.
  - 3. Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C1311.

## 2.5 FABRICATION

- A. Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
- B. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.

## 2.6 FINISHES

- A. Panels and Accessories:
  - 1. Two-Coat Fluoropolymer: **AAMA 621**. Fluoropolymer finish containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in color coat.
  - 2. Concealed Finish: White or light-colored acrylic or polyester backer finish.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C754 and metal panel manufacturer's written recommendations.

### 3.2 INSTALLATION OF UNDERLAYMENT

- A. Self-Adhering Sheet Underlayment: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Apply at locations indicated **below**, wrinkle free, in shingle fashion to shed water, and with end laps of not less than **6 inches (152 mm)** staggered **24 inches (610 mm)** between

courses. Overlap side edges not less than 3-1/2 inches (90 mm). Roll laps with roller. Cover underlayment within 14 days.

1. Apply over the entire roof surface if recommended by manufacturer.
- B. Slip Sheet: Apply slip sheet over underlayment before installing metal roof panels.

### 3.3 INSTALLATION OF STANDING SEAM METAL ROOF PANELS

- A. Standing-Seam Metal Roof Panel Installation: Fasten metal roof panels to supports with concealed clips at each standing-seam joint at location, spacing, and with fasteners recommended in writing by manufacturer.
1. Install clips to supports with self-tapping fasteners.
  2. Install pressure plates at locations indicated in manufacturer's written installation instructions.
  3. Snap Joint: Nest standing seams and fasten together by interlocking and completely engaging factory-applied sealant.
- B. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.
- C. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed 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 weather resistant.

### 3.4 CLEANING AND PROTECTION

- A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.

END OF SECTION 074113.16