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## ADDENDUM NO 2

**DATE:** September 24, 2009

**PROJECT:** **MONROE MANOR**  
**2009 ADDITION**  
**508 E. MONROE AVENUE**  
**BARRON, WI**

This addendum to the contract documents is issued to modify, explain, or correct the original Drawings and Specifications and is therefore made a part of the Contract Documents now in your possession.

Indicate receipt of Addenda on Proposal. All trades shall review for items relating to their work.

### SPECIFICATIONS

**Invitation to Bid.** Line 53. Page 00 11 16- 1. After line 53, add the following: "The contractors invited by the Owner to bid are the General, Plumbing, HVAC, and Electrical contractors. Elevators, Fire Protection System, and Food Service Equipment contractors are not restricted."

**Instructions to Bidders.** Line 35. Page 00 21 00-3. Add "Owner's name for Bonds shall be The Manor, LLC."

**Bid Form** Line 21. Page 00 41 00-1. Base Bid. Clarification. Each Prime bidder shall place his/her work such as, "General Construction", within the parenthesis.

**Bid Form** Line 61. Page 00 41 00-1. Unit Prices. Clarification. Unit prices are for General Construction only. Extent and cost of excavation and backfill will be determined after the pre-construction meeting.

**Section 04 72 00.** Add this section to the specifications and is attached to this addendum.

### APPROVED EQUALS

**Section 08 42 29.** Stanley DG 3000 & DG 2000 Door Package, Besam Unislide.

**Section 08 80 00.** Vetrotech.

**Section 09 51 00.** AT-1, Armstrong Cirrus, Prelude Suspension system, AT-2, Gridstone.

**Section 10 51 00.** Lockers. Art Metal Products

End of Addendum.

1 **SECTION 04 72 00 – CAST STONE MASONRY**

2  
3 **PART 1 GENERAL**

4  
5 **Summary**

6 Cast stone masonry.

7  
8 **Related Sections**

9 Section 04 05 13 – Masonry Mortaring

10 Section 04 05 16 – Masonry Grouting

11 Section 04 05 19 – Masonry Anchorage and Reinforcing

12 Section 04 20 00 – Unit Masonry

13 Section 07 90 00 – Joint Protection

14  
15 **References**

16 ASTM C 150 – Standard Specification for Portland Cement.

17 ASTM C 1116 – Standard Specification for Fiber-Reinforced Concrete and Shotcrete.

18 ASTM C 1364 – Standard Specification for Architectural Cast Stone.

19 Cast Stone Institute Standard Specification ([www.caststone.org](http://www.caststone.org)).

20  
21 **Definitions**

22 Cast Stone: Highly refined architectural concrete stone product manufactured to simulate fine  
23 grain texture of natural stone.

24  
25 Vibrant Dry Tamp (VDT) Casting Method: Vibratory ramming of damp, zero-slump concrete  
26 against rigid formwork until it is densely compacted and ready for immediate removal from  
27 form.

28  
29 **Submittals**

30 Comply with Section 01 33 00 – Submittal Procedures.

31  
32 Product Data: Submit manufacturer's product data.

33  
34 Shop Drawings: Submit manufacturer's shop drawings including profiles, cross sections,  
35 reinforcement, exposed faces, arrangement of joints, anchoring methods, anchors, annotation of  
36 components, and their locations in project as indicated on the Drawings.

37  
38  
39 Verification Samples: Submit pieces of actual cast stone components, 12 inches (305 mm) square,  
40 illustrating range of color and texture to be anticipated in components furnished for project.

41  
42 Test Results: Submit manufacturer's test results of cast stone components made previously by  
43 manufacturer using materials from same sources proposed for use in project.

44  
45 **Quality Assurance**

46 Manufacturer Qualifications: A current producer member of Cast Stone Institute, with a  
47 minimum of 10 years of experience in producing cast stone of types required for project.

48 Plant shall have adequate capacity to furnish quality, sizes, and quantity of cast stone  
49 required without delaying progress of the Work.

50  
51 Products previously produced by plant and exposed to weather shall exhibit satisfactory  
52 appearance.

53

1 Standards: Unless otherwise specified in this section, cast stone shall comply with the following:  
2 ASTM C 1364.  
3 Cast Stone Institute Standard Specification.

4  
5 Mock-ups: Shop Drawings Only  
6

### 7 **Delivery, Storage & Handling**

#### 8 9 Delivery:

10 Deliver cast stone components secured to shipping pallets and protected from damage  
11 and discoloration.

12 Protect corners from damage.

13 Number each piece individually to match shop drawings and schedules.  
14

#### 15 Storage:

16 Store cast stone components and installation materials in accordance with manufacturer's  
17 instructions.

18 Store cast stone components on pallets with nonstaining, waterproof covers.

19 Ventilate under covers to prevent condensation.

20 Prevent contact with dirt.  
21

22 Handling: Protect cast stone components during handling and installation to prevent chipping,  
23 cracking, or other damage.  
24

#### 25 **Scheduling**

26 Schedule and coordinate production and delivery of cast stone components with unit masonry  
27 work to optimize on-site inventory and to avoid delaying the Work.  
28

## 29 **PART 2 PRODUCTS**

### 30 **Manufacturer**

31 Continental Cast Stone, Website [www.continentalcaststone.com](http://www.continentalcaststone.com), Marc Stone (651) 246 2669, or  
32 approved equal.  
33

### 34 **Cast Stone Masonry**

#### 35 Cast Stone:

36 Casting Method: Vibrant dry tamp or machine cast.

37 Compressive Strength: ASTM C 1364.

38 Absorption, Cold Water: ASTM C 1364.

39 Linear Shrinkage: Cast Stone Institute Standard Specification.

40 Surface Texture: ASTM C 1364.  
41

42 Color and Finish: Selected by Architect  
43

#### 44 Permissible Variation in Color:

45 Total Color Difference: ASTM C 1364, 6 units.

46 Hue Difference: ASTM C 1364, 2 units.  
47

### 48 **Cast Stone Materials**

49 Portland Cement: ASTM C 150, Type I, white or gray as required to match specified color.

50 Coarse Aggregate: ASTM C 1364. Granite, quartz, or limestone.

51 Fine Aggregate: ASTM C 1364. Natural or manufactured sands.

52 Coloring Pigments: ASTM C 1364. Inorganic iron oxides.

53 Chemical Admixtures: ASTM C 1364.

1 Water: Potable.  
2  
3 Reinforcement: Where required by ASTM C 1364. [Galvanized] [Epoxy coated].  
4  
5 Fiber Reinforcement: ASTM C 1116, fibrous nylon.  
6  
7 **Mortar Materials**  
8 Mortar: As specified in Section 04 05 13  
9  
10 **Accessories**  
11 Anchors: Non-corrosive type, sized for conditions. Hot-dip galvanized steel.  
12  
13 Sealants: As specified in Section 07 90 00.  
14  
15 Cleaner:  
16 Manufacturer's standard-strength, general-purpose cleaner designed for removing mortar and  
17 grout stains, efflorescence, and other construction stains from new masonry surfaces without  
18 discoloring or damaging masonry surfaces.  
19  
20 Approved for intended use by cast stone manufacturer and approved by cleaner manufacturer  
21 for use on cast stone and adjacent masonry materials.  
22  
23 **Fabrication**  
24 Shapes: Unless otherwise indicated on the Drawings, provide:  
25 Suitable wash on exterior sills, copings, projecting courses, and components with exposed  
26 top surfaces.  
27 Drips on projecting components, wherever possible.  
28  
29 Reinforcement:  
30 As required to withstand handling and structural stresses.  
31 Comply with ASTM C 1364.  
32  
33 Minimum of 0.25 percent of cross-sectional area of panels which exceed 24 inches  
34 (600 mm) in width.  
35  
36 Minimum Reinforcing Cover: Twice diameter of reinforcing bars.  
37 Units less than 24 inches in either transverse or longitudinal direction may be  
38 unreinforced in that direction if structural conditions allow.  
39  
40 Curing:  
41  
42 Cure cast stone components with a direct-fired steam generator at a minimum  
43 temperature of 105 degrees F (41 degrees C) for a minimum of 6 hours, within 12 hours of  
44 fabrication.  
45  
46 Cure cast stone components in presence of carbon monoxide and carbon dioxide to  
47 promote carbonation at surface, to minimize efflorescence.  
48  
49 Finishing: Remove blemishes from exposed surfaces before packaging for shipment.  
50  
51 Manufacturing Tolerances: Manufacture cast stone components within tolerances in accordance  
52 with Cast Stone Institute Standard Specification.  
53

1 **Source Quality Control**

2

3 Sampling and Testing: ASTM C 1364.

4

5 **PART 3 EXECUTION**

6

7 **Examination**

8

9 Examine construction to receive cast stone components. Notify Architect if construction is not  
10 acceptable. Do not begin installation until unacceptable conditions have been corrected.

11

12 Visual Inspection:

13 Visually inspect cast stone components for fit and finish in accordance with ASTM C 1364  
14 before installation.

15

16 Do not install unacceptable components.

16

17 **Installation**

18

18 General: Install cast stone components in conjunction with masonry.

19

20 Setting:

21 Drench cast stone components with clear, running water immediately before installation.

22

22 Do not use pry bars or other equipment in a manner that could damage cast stone  
23 components.

24

24 Fill dowel holes and anchor slots completely with mortar or non-shrink grout.

25

25 Set cast stone components in a full bed of mortar, unless otherwise indicated on the

26

26 Drawings.

27

27 Fill vertical joints with mortar.

28

28 Make joints 3/8 inch (9 mm), unless otherwise indicated on the Drawings.

29

29 Leave head joints in copings and similar components open for sealant.

30

30 Rake mortar joints 3/4 inch (19 mm) for pointing.

31

31 Sponge face of each stone to remove excess mortar.

32

32 Tuck point joints to a slight concave profile.

33

34 Sealant Joints:

35

35 Comply with Section 07 90 00.

36

36 Prime ends of cast stone components, insert properly sized foam backing rod, and install  
37 required sealant using sealant gun.

38

38 Provide sealant joints at following locations and as indicated on the Drawings.

39

39 -Cast stone components with exposed tops.

40

40 -Joints at relieving angles.

41

41 -Control and expansion joints.

42

43 **Setting Tolerances**

44

45 Tolerances: Comply with Cast Stone Institute Standard Specification.

46

46 Variation from Plumb: Do not exceed 1/8 inch in 5 feet (3 mm in 1.5 m) or 1/4 inch in 20  
47 feet (6 mm in 6 m) or more.

48

49 Variation from Level: Do not exceed 1/8 inch in 5 feet (3 mm in 1.5 m), 1/4 inch in 20 feet

50

50 (6 mm in 6 m), or 3/8 inch (9 mm) maximum.

51

52 Variation in Joint Width: Do not vary joint width more than 1/8 inch (3 mm) or 1/4 of  
53 nominal joint width, whichever is greater.

