

SECTION 01 43 39
MOCKUP REQUIREMENTS

PART 1 - GENERAL

1.1 DESCRIPTION

This section covers MOCKUP REQUIREMENTS - see also individual specification sections for additional requirements.

1.2 RELATED WORK

- A. Submittals: Section 01 33 23 SHOP DRAWINGS, PRODUCT DAT, AND SAMPLES
- B. Individual SPECIFICATION SECTIONS from all SPECIFICATION DIVISIONS pertaining to Columbaria, Memorial Marker Wall, Piers, and Ossuary Privacy Wall.
- C. Section 03 30 53 CAST-IN-PLACE CONCRETE
- D. Section 03 45 00 PRECAST ARCHITECTURAL CONCRETE
- E. Section 03 48 24 PRE-CAST CONCRETE COLUMBARIUM UNITS
- F. Section 03 48 26 PRECAST CONCRETE MEMORIAL MARKER WALL UNITS
- G. Section 04 05 13 MASONRY MORTARING
- H. Section 04 20 00 UNIT MASONRY
- I. Section 04 43 00 NATURAL STONE VENEER
- J. Section 04 73 00 COLUMBARIA NICHE COVERS - MARBLE
- K. Section 04 73 11 MEMORIAL MARKER-MARBLE
- L. Section 07 13 00 SHEET WATERPROOFING
- M. Section 07 60 00 FLASHING AND SHEET METAL
- N. Section 07 92 00 JOINT SEALANTS

1.3 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES all required submittals. Submittals must be approved prior to constructing the mockup.
- B. Provide shop drawings for proposed Mockup.

1.4 DEFINITIONS

- A. Mockups (General): Full-size physical assemblies that are constructed on-site. Mockups are constructed to verify selections made under sample submittals; to demonstrate aesthetic effects and, where indicated, qualities of materials and execution; to review coordination, testing, or operation; to show interface between dissimilar materials; and to demonstrate compliance with specified installation tolerances.
 - 1. Mockups are not provided in lieu of submittals (See Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES and individual specification sections associated with the mockup).

2. Unless otherwise indicated, all approved mockups establish the standard by which the WORK will be judged.

- B. Mockups of the Columbaria. Memorial Marker Wall, Piers, and Ossuary privacy wall complete with all materials including but not limited to: stem walls, masonry ledges, structural wall elements, finishes, stone veneer, flashings, type of formwork, formwork details, pre-cast columbaria units, waterproofing, memorial wall color and stone cap.

1.5 QUALITY ASSURANCE

- A. Mockup Plan: Detailed, dimensioned plans and elevations showing mockup size, and items and materials that will be included in proposed mockup. Provide for each mockup.
- B. Pre-Construction Conference: Prior to the construction of the mockups, a conference shall be scheduled by the contractor for the purpose of reviewing the requirements and intent of mockups.
- C. Mock-ups to be constructed independently from the Columbaria, Memorial Marker Wall, and Ossuary Privacy Wall construction. After all construction and punchlist is complete, the mock-ups shall be removed as indicated by COR.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Before installing portions of the Work requiring mockups, build mockups for each form of construction and finish as directed.
1. Build mockups in location and of full scale size and profile indicated or, as directed by the COR.
 2. Notify the COR a minimum of 14 calendar days in advance of dates and times when mockups will be completed and able to be inspected.
 3. Employ supervisory personnel to oversee mockup construction. Employ same workers that will be employed during the construction of Project.
 4. Demonstrate the proposed range of aesthetic effects and workmanship.
 5. Commence ordering of materials after mockup has been inspected and approved in writing by COR.
 6. The mockup will establish the standard of quality of workmanship by which the Work will be judged.
 7. Commence work and finish mockups with final approval prior to beginning construction of the Columbaria, Memorial Marker Wall, Ossuary wall and retaining wall.

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8. Mockup to remain up during construction and removed after punch listing of construction and after approval by COR.
- B. Mockup Type: Construct mockup in accordance with approved shop drawings, project manual, and Contract Drawings, using exact materials and methods approved for the Project, including required accessories.
- See also drawings and individual material specification sections for Mock-up requirements
- C. Mock-up approval: The construction of several mock ups is required for A/E and COR review and approval as part of this contract.
 1. Mock-ups will be used to make final material selection, evaluate installation techniques, and evaluate compatibility of selected components. The completed mock ups will serve as a mutual understanding of the workmanship and methods to be used on actual installation. As such, some re-work may be required at no additional cost to the government.
 2. Mock-ups shall be constructed on site to allow visual inspection in conditions similar to the final location.
 3. Mock-ups shall include architectural elements and geometry similar to the final product.
 4. Mock-ups shall be constructed with full scale size materials.
 5. Mock-ups shall be completed to allow sufficient time for evaluation prior to ordering of materials.
- D. Mock-ups

1. COLUMBARIA

Columbaria (Two Open/Closed niche units) , including full scale length and height of intermediate pier) - Provide stemwall and masonry ledge for CMU and stone mock-up, minimum four niche high and two niche wide columbaria units (8 niche units) with cap stone, connection to stem wall, and show joint conditions at intermediate pier (including but not limited to the following:

- 03 30 00 - Cast-in-Place Concrete
- 03 45 00 - Precast Architectural Concrete
- 03 48 24 - Precast Concrete Columbaria Unit
- 04 05 13 - Masonry Mortaring
- 04 05 16 - Masonry Grouting
- 04 20 00 - Unit Masonry
- 04 43 00 - Natural Stone Veneer
- 04 73 00 - Columbarium Niche Covers Marble & Hardware
- 07 13 00 - Sheet Waterproofing
- 07 60 00 - Flashing & Sheet Metal

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07 92 00 - Joint Sealants

2. MEMORIAL WALL UNITS

Memorial Wall Mock Up to include marble marker hardware, and marble markers demonstrating all hardware/marker connecting conditions, Mockup to include and curvature (including but not limited to the following:

03 30 00 - Cast-in-Place Concrete
03 45 00 - Precast Architectural Concrete
03 48 26 - Precast Memorial Wall Unit
04 05 13 - Masonry Mortaring
04 05 16 - Masonry Grouting
04 20 00 - Unit Masonry
04 43 00 - Natural Stone Veneer
04 73 10 - Memorial Marker Plaques Marble
07 13 00 - Sheet Waterproofing
07 60 00 - Flashing & Sheet Metal
07 92 00 - Joint Sealants
Size: Full Height x 5 feet long

3. PIER (as a part of the Columbaria Mockup and the Memorial Marker Wall mockup)

Wall Mock Up (including but not limited to):

03 30 53 - Cast-in-Place Concrete
03 45 00 - Precast Architectural Concrete
04 05 13 - Masonry Mortaring
04 05 16 - Masonry Grouting
04 20 00 - Unit Masonry
04 43 00 - Natural Stone Veneer
07 13 00 - Sheet Waterproofing
07 60 00 - Flashing & Sheet Metal
07 92 00 - Joint Sealants
Size: Full length and height

4. OSSUARY PRIVACY WALL

Wall Mock Up - to include finished end of wall (including but not limited to):

03 30 53 - Cast-in-Place Concrete
03 45 00 - Precast Architectural Concrete
04 05 13 - Masonry Mortaring
04 43 00 - Natural Stone Veneer
07 13 00 - Sheet Waterproofing
07 60 00 - Flashing & Sheet Metal

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07 92 00 - Joint Sealants

Size: Minimum 5 ft long, measured from end corner, height to be
design height (see drawings).

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