

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES
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2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
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6. ISSUED BY CODE	7. ADMINISTERED BY (If other than Item 6) CODE
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(X)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 11)
CODE	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA (Signature of Contracting Officer)	16C. DATE SIGNED

NATIONAL GALLERY OF ART

6th and Constitution NW, Washington, DC

NGA RFQ 08 080

REPAIR CONCRETE AREAWAYS ADJACENT TO MALL FOUNTAINS SPECIFICATIONS

Part I. General

1.01 RELATED DOCUMENTS

- A. General provisions of the Contract, including the attached or referenced Federal Acquisition Regulations (FAR), all OSHA Safety Standards, District of Columbia Building Code, B.O.C.A. Building Code and all pertinent Local and National Building Codes and or requirements.

1.02 SCOPE OF WORK

- A. This scope specifies, cast in place concrete, formwork, reinforcing, mix design, placement procedures, finishes, and caulking.
- B. The Contractor shall remove and replace concrete areaways as specified herein.

1.03 SUBMITTAL

- A. General: Submit the following in accordance to Conditions of Contract and Specification.
- B. Product data for proprietary materials and items, including reinforcement and forming accessories, admixtures, joint systems, curing compounds, and others if requested by the COTR.
- C. Laboratory test reports for concrete materials and mix design test.
- D. Materials certificates in lieu of material laboratory test reports when permitted by the COTR. Material certificates shall be signed by manufacturer and Contractor, certifying that each material item complies with or exceeds specified requirements. Provide certification from admixture manufacturers that chloride content complies with specification requirements.

1.04 CONFLICTING REQUIREMENTS

- A. In the event of conflict between pertinent codes, regulations, or structural notes, and requirements, of the referenced standards of these Specifications, the provisions of the more stringent shall govern.

- B. Contractor shall notify C.O. if specified treatments, admixtures, or procedures conflict with proper concrete construction. Submit for approval, alternate conditions to remedy conflicts prior to commencement of construction. Do not proceed until all conflicts have been approved and corrected.

1.05 QUALITY ASSURANCE

- A. Codes and Standards: comply with provisions of the following codes, specifications, and standards, except where more stringent requirements are shown or specified.
 - 1. American Concrete Institute (ACI) 301, "Specifications for Structural Concrete for Building."
 - 2. ACI 318, "Building Code Requirements for Reinforced Concrete."
 - 3. Concrete Reinforcing Steel Institute (CRSI) "Manual of Standard Practice."
- B. Concrete Testing Service: Engage a testing agency acceptable to the COTR to perform material evaluation tests and to design concrete mixes.
- C. Materials and installed work may require testing and retesting at any time during progress of work. Tests, including retesting of rejected materials for installed work, shall be done at Contractor's expense.

Part II. Products

2.01 FORM MATERIALS

- A. Forms for unexposed finish concrete: Plywood, lumber, metal, or another acceptable material. Provide lumber, dressed on at least two edges and one side for tight fit.

2.02 REINFORCING MATERIALS

- A. Welded wire fabric: ASTM A 185, welded steel wire fabric.
- B. Supports for reinforcement: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening welded wire fabric in place. Use wire bar-type supports complying with CRSI specifications.

2.03 CONCRETE MATERIALS

- A. Portland Cement: ASTM C 105, Type I.
 - 1. Use one branch of cement throughout Project unless otherwise acceptable to the COTR.
- B. Fly Ash: ASTM C 618, Type F.

- C. Normal weight aggregates: ASTM C 33 and as specified. Provide aggregates from a single source for exposed concrete. Use a medium Aggregate, pea gravel, ¼"-½" in diameter.
- D. Lightweight Aggregates: ASTM C 330.
- E. Water: Potable.
- F. Admixtures, general: Provide concrete admixtures that contain not more than 0.1 percent chloride ions.
- G. Air-Entraining Admixtures: ASTM C 260, certified by manufacturer to be compatible with other required admixtures.

2.04 PROPORTIONING AND DESIGNING MIXES

- A. Prepare design mixes for each type and strength of concrete by either laboratory trial batch or field experience methods as specified in ACI 301. For the trial batch method, use an independent testing agency acceptable to the COTR for preparing and reporting proposed mix designs.
- B. Design mix to provide normal weight concrete with the following properties as indicated on drawings and schedules:
 - 1. 3000-psi, 28-day compressive strength; water-cement ratio, 0.51 maximum (non-air-entrained), 0.40 maximum (air-entrained).

2.05 ADMIXTURES

- A. Use air-entraining admixture in exterior exposed concrete unless otherwise indicated. Add air-entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having total air content with a tolerance of plus or minus one and one-half (1½) percent.
- B. Hot weather placement:
 - 1. When hot weather conditions exist that would impair quality and strength of concrete, place concrete complying with ACI 305.
 - 2. Cool ingredients before mixing to maintain concrete temperature at time of placement to below 90 F (32 C). Mixing water may be chilled or, chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water.
 - 3. Fog spray forms, reinforcing welded wire fabric and sub-grade just before placing concrete, so that steel fabric temperature will not exceed the ambient air temperature. Keep sub-grade moisture uniform without puddles or dry areas.

4. Use water-reducing retarding admixture when required by high temperatures, low humidity, or other adverse placing conditions as acceptable to the COTR.

2.05 CONCRETE MIXING

- A. Provide batch ticket for each batch discharged and used in the work, indicating project identification name and number, date of mix type, mix time, quantity, and amount of water introduced.

2.06 CAULK

A. Polyurethane Caulk Sealant: Shall be a premium grade one-component elastomeric gun grade polyurethane sealant. The sealant shall be a permanently flexible at 25%, tear resistant, and a non-staining product. The sealant shall conform to Fed. Spec. TT-S-00230C, Type II, class A, and ASTM C 920, Type S, Grade NS, Class 25, Use NT, M, A, G and O. The sealant shall be provided in a Capitol Tan color as manufactured by Sika Corporation to match the existing concrete and cap stones.

Part III. Execution

3.01 PLACING REINFORCEMENT

- A. General: Comply with Concrete Reinforcing Steel Institute's recommended practice for "Placing Reinforcing Bars," for details and methods of reinforcement placement and supports and as specified.
- B. Clean reinforcement of loose rust and mill scale, earth, ice, and other materials that reduce or destroy bond with concrete
- C. Accurately position, support, and secure reinforcement against displacement. Locate and support reinforcing by metal chairs, runners, bolsters, spacers, and hangers, as approved by the COTR.
- D. Place reinforcement to maintain minimum coverage as indicated for concrete protection. Arrange, space, and secure tie bars and bar supports to hold reinforcement in position during concrete placement operations. Set wire ties so ends are directed into concrete, not toward exposed concrete surfaces.
- E. Install welded wire fabric in lengths as long as practicable. Lap adjoining pieces at least one (1) full mesh and lace splices with wire. Offset laps of adjoining widths to prevent continuous laps in either direction.

3.02 CONCRETE PLACEMENT

- A. Inspection: Before placing concrete, inspect and complete formwork installation, and reinforcing steel.
- B. General: comply with ACI 304, "Guide for Measuring, Mixing,

Transporting, and Placing Concrete," and as specified.

- C. Deposit concrete continuously or in layers of such thickness that no new concrete will be placed on concrete that has hardened sufficiently to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as specified. Deposit concrete to avoid segregation at its final location.
- D. Placing concrete slabs: Deposit and consolidate concrete slabs in a continuous operation, within limits of construction joints, until completing placement of a panel or section using a concrete pump truck. Where concrete abuts existing walls or stone, etc., an expansion joint is required;
 - 1. Consolidate concrete during placement operations so that concrete is thoroughly worked around reinforcement, other embedded items and into corners.
 - 2. Bring slab surfaces to correct level with a straightedge and strike off. Use bull floats or derbies to smooth surface free of humps or hollows. Do not disturb slab surfaces prior to beginning finishing operations. Concrete shall be placed/finished to match the elevations as specified by the COTR.
 - 3. Maintain reinforcing in proper position on chairs during concrete placement.

3.03 FINISHING FORMED SURFACES

- A. Aggregate finish:
 - 1. Concrete shall be finished to match the existing adjacent concrete surfaces (broom finished), following the same expansion joint and control joint configuration.
 - 2. Concrete color shall match the existing concrete surfaces in the adjacent area.

3.04 QUALITY CONTROL TESTING DURING CONSTRUCTION

- A. Sampling and testing for quality control during concrete placement may include the following, as directed by the COTR.
 - 1. Sampling fresh concrete: ASTM C 172, except modified for slump to comply with ASTM C 94.
 - a. Slump: ASTM C 143; one (1) test at point of discharge for each day's pour of each type of concrete; additional tests when concrete consistency seems to have changed.

- B. Test results will be reported in writing to the COTR and Contractor within twenty-four (24) hours after tests.
- C. Nondestructive Testing: Impact hammer, sonoscope, or other Non-destructive device may be permitted but shall not be used as the sole basis for acceptance or rejection.

3.05 SEQUENCING OF THE WORK

- A. All of the work shall be done in such a manner as not to interfere with the operation of the National Gallery of Art.
 - 1. Barricades and signs shall be placed for safety reasons and to direct pedestrian traffic around the work and guests to the National Gallery of Art.
 - 2. Upon completion of the demolition the area should be prepared for concrete placement and concrete placed the following day.

3.06 DEMOLITION/GROUND PREPARATION

- A. Concrete areaways shall be removed in the areas specified herein.
- B. After walks are removed, grade shall be brought to its elevation with approximately 2" thick CR-6 and compacted to a density of 100%.

3.07 CAULKING

- A. All expansion joint materials shall be removed to a depth of ¼" by ½" in width and joint caulked. Apply masking tape to either side of the joint to protect the new concrete from any over-application of caulk sealant. Remove afterwards. All caulking shall take place at least 28 days after the new concrete slabs are poured to allow for proper curing of the sections of concrete areaways.

Part IV, Other requirements

4.01 TRASH, CONSTRUCTION DEBRIS, PROTECTION, CLEAN UP

- A. All trash and construction debris shall be removed from the site on a daily basis.
 - 1. The site shall be kept constantly swept clean due to the pedestrian and vehicular traffic in the area.
- B. No stock piling of construction debris will be allowed. Debris shall be placed in a truck and removed from the site as demolition occurs.
- C. The site shall be watered down to control dust, and to keep dust from

entering the facility, if requested by the COTR.

- D. Potable water is available at a hose bib within 200 lf of the planned work. The contractor shall be responsible for providing their own hoses and fittings for use on this project.
- E. Upon completion of the project the site and adjacent areas shall be left clean, free of trash, debris and dust.
- F. The contractor is responsible for all damages to adjacent areas, utilities, property, trees, shrubbery, grass, etc.
 - 1. If damages do occur, the Contractor will replace the damaged items to the satisfaction of the National Gallery of Art and to no expense to the National Gallery of Art.
- G. The grounds abutting the new concrete areaways shall be raked clean, top soil placed at form locations and any low area caused by the project work.
- H. No construction vehicles shall be placed on or driven over lawn or vegetated areas.

4.02 PARKING

- A. No parking is available. Only project related vehicles will be allowed at the site, i.e., concrete truck, dump truck, and pick-up/tool truck.

End of Section

SUGGESTED SOURCES

Capitol Paving of D.C,
2211 Channing Street, N.E.
Washington, DC 20018
(202) 529-7225

Fort Meyer Construction Corporation
2237 33rd Street
Washington, DC 20018
(202) 396-9535

M.T.I. Construction Co., Inc.
6029 Dix Street, N.E.
Washington, DC 20019
(202) 396-2800

Marchuk Inc.
2539 Hillsman Street
Falls Church, VA 22043
(703)856-4194

Monumental Construction Corporation
1090 Vermont Avenue, NW, Suite 800
Washington, DC 20005
202-388-6540