

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. <i>(If applicable)</i>
6. ISSUED BY	CODE	7. ADMINISTERED BY <i>(If other than Item 6)</i>	CODE

8. NAME AND ADDRESS OF CONTRACTOR <i>(No., street, county, State and ZIP Code)</i>	(X)	9A. AMENDMENT OF SOLICIATION NO.
		9B. DATED <i>(SEE ITEM 11)</i>
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED <i>(SEE ITEM 11)</i>
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: <i>(Specify authority)</i> 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 <i>(such as changes in paying office, appropriation date, etc.)</i> 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 <i>(Specify type of modification and authority)</i>

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

Item 14. Continued.

CHANGES TO THE SPECIFICATIONS

1. Replacement Sections- Replace the following sections with the accompanying new sections of the same number and title, bearing the notation "ACCOMPANYING AMENDMENT NO. 0006 TO SOLICITATION NO. DACA63-01-B-0002:"

<u>Section No.</u>	<u>Title</u>
05120	STRUCTURAL STEEL
08700	BUILDERS' HARDWARE

CHANGES TO THE DRAWINGS

2. Replacement Drawings - Replace the following drawings with the accompanying new drawings of the same number and title, bearing the notation "AM #0006":

s001_6.cal	Seq 84	S0.01	STRUCTURAL NOTES AND MISCELLANEOUS DETAILS
s002_6.cal	Seq 85	S0.02	MISCELLANEOUS FRAMING DETAILS
s101_6.cal	Seq 86	S1.01	PARTIAL FOUNDATION PLAN - 1
s102_6.cal	Seq 87	S1.02	PARTIAL FOUNDATION PLAN - 2
s103_6.cal	Seq 88	S1.03	PARTIAL FOUNDATION PLAN - 3
s104_6.cal	Seq 89	S1.04	PARTIAL FOUNDATION PLAN - 4
s105_6.cal	Seq 90	S1.05	FOUNDATION SECTIONS - 1
s106_6.cal	Seq 91	S1.06	FOUNDATION SECTIONS - 2
s110_6.cal	Seq 95	S1.10	PARTIAL SECOND FLOOR PLAN -1
s111_6.cal	Seq 96	S1.11	PARTIAL SECOND FLOOR PLAN -2
s112_6.cal	Seq 97	S1.12	INTERMEDIATE FLOOR SECTIONS I
s113_6.cal	Seq 98	S1.13	INTERMEDIATE FLOOR SECTIONS II
s114_6.cal	Seq 99	S1.14	INTERMEDIATE FLOOR SECTIONS III
s118_6.cal	Seq 103	S1.18	PARTIAL ROOF FRAMING PLAN - 3
s119_6.cal	Seq 104	S1.19	PARTIAL ROOF FRAMING PLAN - 4
s120_6.cal	Seq 105	S1.20	ROOF SECTIONS - 1
s121_6.cal	Seq 106	S1.21	ROOF SECTIONS - 2
s302_6.cal	Seq 294	S3.02	PARTIAL FOUNDATION PLAN - 2
s304_6.cal	Seq 296	S3.04	FOUNDATION SECTIONS - 2
s305_6.cal	Seq 297	S3.05	FOUNDATION SECTIONS - 3
s308_6.cal	Seq 300	S3.08	PARTIAL ROOF FRAMING PLAN - 2
s309_6.cal	Seq 301	S3.09	PARTIAL ROOF FRAMING PLAN - 3
s311_6.cal	Seq 303	S3.11	ROOF FRAMING SECTIONS - 2
s312_6.cal	Seq 304	S3.12	WALL FRAMING - 1

End of Amendment

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SECTION 05120

STRUCTURAL STEEL

09/97

Amendment No. 0006

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

AISC FCD	(1995a) Quality Certification Program Description
AISC ASD Manual	(1989) Manual of Steel Construction Allowable Stress Design
AISC ASD/LRFD Vol II	(1992) Manual of Steel Construction Vol II: Connections
AISC Design Guide No. 10	(1989) Erection Bracing of Low-Rise Structural Steel Frames
AISC LRFD Vol I	(1995) Manual of Steel Construction Load & Resistance Factor Design, Vol I: Structural Members, Specifications & Codes
AISC LRFD Vol II	(1995) Manual of Steel Construction Load & Resistance Factor Design, Vol II: Structural Members, Specifications & Codes
AISC Pub No. S303	(1992) Code of Standard Practice for Steel Buildings and Bridges

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A 6/A 6M	(1998a) General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling
ASTM A 36/A 36M	(1997a) Carbon Structural Steel
ASTM A 53	(1999) Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless
ASTM A 242/A 242M	(1998) High-Strength Low-Alloy Structural Steel
ASTM A 307	(1997) Carbon Steel Bolts and Studs, 60

000 PSI Tensile Strength

ASTM A 325	(1997) Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength
ASTM A 325M	(1997) High-Strength Bolts for Structural Steel Joints (Metric)
ASTM A 490	(1997) Heat-Treated Steel Structural Bolts, 150 ksi Minimum Tensile Strength
ASTM A 490M	(1993) High-Strength Steel Bolts, Classes 10.9 and 10.9.3, for Structural Steel Joints (Metric)
ASTM A 500	(1999) Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes
ASTM A 501	(1999) Hot-Formed Welded and Seamless Carbon Steel Structural Tubing
ASTM A 502	(1993) Steel Structural Rivets
ASTM A 514/A 514M	(1994a) High-Yield-Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding
ASTM A 529/A 529M	(1996) High-Strength Carbon-Manganese Steel of Structural Quality
ASTM A 563	(1997) Carbon and Alloy Steel Nuts
ASTM A 563M	(1997) Carbon and Alloy Steel Nuts (Metric)
ASTM A 572/A 572M	(1999) High-Strength Low-Alloy Columbium-Vanadium Structural Steel
ASTM A 588/A 588M	(1997) High-Strength Low-Alloy Structural Steel with 50 ksi (345 MPa) Minimum Yield Point to 4 in. (100 mm) Thick
ASTM A 618	(1999) Hot-Formed Welded and Seamless High-Strength Low-Alloy Structural Tubing
ASTM A 709/A 709M	(1997a) Carbon and High-Strength Low-Alloy Structural Steel Shapes, Plates, and Bars and Quenched-and-Tempered Alloy Structural Steel Plates for Bridges
ASTM A 852/A 852M	(1997) Quenched and Tempered Low-Alloy Structural Steel Plate with 70 ksi (485 MPa) Minimum Yield Strength to 4 in. (100 mm) Thick
ASTM A 992/A 992M	(1998e1) Steel for Structural Shapes For Use in Building Framing

ASTM F 436 (1993) Hardened Steel Washers

ASTM F 436M (1993) Hardened Steel Washers (Metric)

ASTM F 844 (1998) Washers, Steel, Plain (Flat), Unhardened for General Use

ASTM F 959 (1999) Compressible-Washer-Type Direct Tension Indicators for Use with Structural Fasteners

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

ASME B18.21.1 (1994) Lock Washers (Inch Series)

ASME B46.1 (1995) Surface Texture (Surface Roughness, Waviness, and Lay)

AMERICAN WELDING SOCIETY (AWS)

AWS A2.4 (1998) Standard Symbols for Welding, Brazing and Nondestructive Examination

AWS D1.1 (1998) Structural Welding Code - Steel

STEEL STRUCTURES PAINTING COUNCIL (SSPC)

SSPC Paint 25 (1991) Red Iron Oxide, Zinc Oxide, Raw Linseed Oil and Alkyd Primer (without Lead and Chromate Pigments)

1.2 GENERAL REQUIREMENTS

Structural steel fabrication and erection shall be performed by an organization experienced in structural steel work of equivalent magnitude. The Contractor shall be responsible for correctness of detailing, fabrication, and for the correct fitting of structural members. Connections, for any part of the structure not shown on the contract drawings, shall be considered simple shear connections and shall be designed and detailed in accordance with pertinent provisions of AISC ASD Manual and AISC LRFD Vol II. Substitution of sections or modification of connection details will not be accepted unless approved by the Contracting Officer. AISC ASD Manual and AISC ASD/LRFD Vol II shall govern the work. Welding shall be in accordance with AWS D1.1; except that welding for critical applications shall be in accordance with Section 05090 WELDING, STRUCTURAL or paragraph WELDING. High-strength bolting shall be in accordance with AISC ASD Manual .

1.3 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-04 Drawings

Structural Steel System; GA.

Structural Connections; GA.

Shop and erection details including members (with their connections) not shown on the contract drawings. Welds shall be indicated by standard welding symbols in accordance with AWS A2.4.

SD-08 Statements

Erection; FIO.

Prior to erection, erection plan of the structural steel framing describing all necessary temporary supports, including the sequence of installation and removal.

Welding; GA.

WPS not prequalified.

Welding; FIO.

WPS prequalified.

SD-13 Certificates

Mill Test Reports; FIO.

Certified copies of mill test reports for structural steel, structural bolts, nuts, washers and other related structural steel items, including attesting that the structural steel furnished contains no less than 25 percent recycled scrap steel and meets the requirements specified, prior to the installation.

Welder Qualifications; FIO.

Certified copies of welder qualifications test records showing qualification in accordance with AWS D1.1.

Welding Inspector; FIO.

Welding Inspector qualifications.

Fabrication; FIO.

A copy of the AISC certificate indicating that the fabrication plant meets the specified structural steelwork category.

SD-14 Samples

High Strength Bolts and Nuts; FIO.

Carbon Steel Bolts and Nuts; FIO.

Nuts Dimensional Style; FIO.

Washers; FIO.

Random samples of bolts, nuts, and washers as delivered to the job site if requested, taken in the presence of the Contracting Officer and provided to the Contracting Officer for testing to establish compliance with specified requirements.

1.4 STORAGE

Material shall be stored out of contact with the ground in such manner and location as will minimize deterioration.

1.5 WELDING INSPECTOR

Welding Inspector qualifications shall be in accordance with AWS D1.1

PART 2 PRODUCTS

2.1 STRUCTURAL STEEL

2.1.1 Carbon Grade Steel

Carbon grade steel shall conform to ASTM A 36/A 36M .

2.1.2 High-Strength Low-Alloy Steel

High-strength low-alloy steel shall conform to ASTM A 572/A 572M, **Grade 50.**
(Am #6)

2.1.3 Corrosion-Resistant High-Strength Low-Alloy Steel

Corrosion-resistant steel shall conform to ASTM A 242/A 242M.

2.1.4 Quenched and Tempered Alloy Steel

Tempered alloy steel shall conform to ASTM A 514/A 514M.

2.1.5 Carbon and High-Strength Low-Alloy Steel

Carbon and high-strength low-alloy steel shall conform to ASTM A 709/A 709M.

2.1.6 Quenched and Tempered Low-Alloy Steel

Quenched and tempered low-alloy steel shall conform to ASTM A 852/A 852M,
485 MPa.

2.1.7 Structural Shapes for Use in Building Framing

Wide flange shapes in accordance with ASTM A 992/A 992M shall be used where indicated on the drawings.

2.2 STRUCTURAL TUBING

Structural tubing shall conform to ASTM A 500, Grade B .

2.3 STEEL PIPE

Steel pipe shall conform to ASTM A 53, Type E , Grade B.

2.4 HIGH STRENGTH BOLTS AND NUTS

High strength bolts shall conform to ASTM A 325M , Type 1 with carbon steel nuts conforming to ASTM A 563M , Grade C or DH; **or** ASTM A 325M , Type 3 with carbon steel nuts conforming to ASTM A 563M , Grade C3.

2.5 CARBON STEEL BOLTS AND NUTS

Carbon steel bolts shall conform to ASTM A 307, Grade A with carbon steel nuts conforming to ASTM A 563M , Grade A.

2.6 NUTS DIMENSIONAL STYLE

Carbon steel nuts shall be Heavy Hex style when used with ASTM A 307 bolts or Heavy Hex style when used with ASTM A 325M or ASTM A 490M bolts.

2.7 WASHERS

Plain washers shall conform to ASTM F 844. Other types, when required, shall conform to ASTM F 436M.

2.8 PAINT

Paint shall conform to SSPC Paint 25.

PART 3 EXECUTION

3.1 FABRICATION

Fabrication shall be in accordance with the applicable provisions of AISC ASD Manual. Fabrication and assembly shall be done in the shop to the greatest extent possible. The fabricating plant shall be certified under the AISC FCD for Category I structural steelwork. Compression joints depending on contact bearing shall have a surface roughness not in excess of 13 micrometer as determined by ASME B46.1, and ends shall be square within the tolerances for milled ends specified in ASTM A 6/A 6M. Structural steelwork, except surfaces of steel to be encased in concrete, surfaces to be field welded, surfaces to be fireproofed, and contact surfaces of friction-type high-strength bolted connections shall be prepared for painting in accordance with AISC ASD MANUAL and primed with the specified paint.

3.2 ERECTION

- a: Erection of structural steel, except as indicated in item b. below, shall be in accordance with the applicable provisions of AISC ASD Manual . Erection plan shall be reviewed, stamped and sealed by a structural engineer licensed by the state in which the project is located.
- b. For low-rise structural steel buildings (18 m tall or less and a maximum of 2 stories), the erection plan shall conform to AISC Pub No. S303 and the structure shall be erected in accordance with AISC Design Guide No. 10.

3.2.1 Structural Connections

Anchor bolts and other connections between the structural steel and foundations shall be provided and shall be properly located and built into

connecting work. Field welded structural connections shall be completed before load is applied.

3.2.2 Base Plates and Bearing Plates

Column base plates for columns and bearing plates for beams, girders, and similar members shall be provided. Base plates and bearing plates shall be provided with full bearing after the supported members have been plumbed and properly positioned, but prior to placing superimposed loads. Separate setting plates under column base plates will not be permitted. The area under the plate shall be damp-packed solidly with bedding mortar, except where nonshrink grout is indicated on the drawings. Bedding mortar and grout shall be as specified in Section 03300 CAST-IN-PLACE STRUCTURAL CONCRETE.

3.2.3 Field Priming

After erection, the field bolt heads and nuts, field welds, and any abrasions in the shop coat shall be cleaned and primed with paint of the same quality as that used for the shop coat.

3.3 WELDING

The contractor shall develop and submit the Welding Procedure Specifications (WPS) for all welding, including welding done using prequalified procedures. Prequalified procedures may be submitted for information only; however, procedures that are not prequalified shall be submitted for approval.

3.4 SPECIAL INSPECTION AND TESTING FOR SEISMIC-RESISTING SYSTEMS

Special inspections and testing for seismic-resisting systems and components shall be done in accordance with Section 01452 SPECIAL INSPECTION FOR SEISMIC-RESISTING SYSTEMS.

-- End of Section --

SECTION 08700

BUILDERS' HARDWARE

03/96

Amendment Nos. 0005 and 0006

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM E 283 (1991) Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen

BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BHMA)

BHMA L & R Directory (Effective thru Jun 1999) Directory of Certified Locks & Latches

BHMA Closer Directory (Effective thru Jul (1999) Directory of Certified Door Closers

BHMA Exit Devices Directory (Effective thru Aug 1998) Directory of Certified Exit Devices

BHMA A156.1 (1997) Butts and Hinges

BHMA A156.3 (1994) Exit Devices

BHMA A156.4 (1992) Door Controls - Closers

BHMA A156.5 (1992) Auxiliary Locks & Associated Products

BHMA A156.6 (1994) Architectural Door Trim

BHMA A156.7 (1997) Template Hinge Dimensions

BHMA A156.8 (1994) Door Controls - Overhead Stops and Holders

BHMA A156.13 (1994) Mortise Locks & Latches

BHMA A156.16 (1989) Auxiliary Hardware

BHMA A156.18 (1993) Materials and Finishes

BHMA A156.21 (1996) Thresholds

DOOR AND HARDWARE INSTITUTE (DHI)

DHI Keying Systems (1989) Keying Systems and Nomenclature

DHI Locations for CSD (1997) Recommended Locations for Builders' Hardware for Custom Steel Doors and Frames

DHI Locations for SSD (1990) Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames

DHI ANSI/DHI A115.1G (1994) Installation Guide for Doors and Hardware

DHI ANSI/DHI A115-W (Varies) Wood Door Hardware Standards (Incl A115-W1 thru A115-W9)

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 80 (1999) Fire Doors and Fire Windows

NFPA 101 (1997; Errata 97-1; TIA-97-1) Life Safety Code

NFPA 105 (1999) Installation of Smoke-Control Door Assemblies

1.2 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-01 Data

Hardware and Accessories; GA.

Manufacturer's descriptive data, technical literature, catalog cuts, and installation instructions. Spare parts data for locksets, exit devices,

closers, electric locks, electric strikes, electro-magnetic closer holder release devices, and electric exit devices, after approval of the detail drawings, and not later than 3 month(s) prior to the date of beneficial occupancy. The data shall include a complete list of parts and supplies, with current unit prices and source of supply.

SD-04 Drawings

Hardware Devices; GA.

Detail drawings for hardware devices for computerized keying systems, magnetic cards, keyless push button access control systems, and other electrical hardware devices showing complete wiring and schematic diagrams and other details required to demonstrate proper function of units.

SD-07 Schedules

Hardware Schedule; GA.

Hardware schedule listing all items to be furnished. The schedule shall include for each item: the quantities; manufacturer's name and catalog numbers; the ANSI number specified, sizes; detail information or catalog cuts; finishes; door and frame size and materials; location and hardware set identification cross-references to drawings lock trim material thickness; lock trim material evaluation test results;; lock trim material thicknesses; lock trim material evaluation test results; corresponding reference standard type number or function number from manufacturer's catalog if not covered by ANSI or BHMA; and list of abbreviations and template numbers.

Keying Schedule; GA.

Keying schedule developed in accordance with DHI Keying Systems, after the keying meeting with the user.

SD-13 Certificates

Hardware and Accessories; GA.

The hardware manufacturer's certificates of compliance stating that the supplied material or hardware item meets specified requirements. Each certificate shall be signed by an official authorized to certify in behalf of the product manufacturer and shall identify quantity and date or dates of shipment or delivery to which the certificates apply. A statement that the proposed hardware items appear in BHMA L & R Directory, BHMA Closer Directory and BHMA Exit Devices Directory directories of certified products may be submitted in lieu of certificates. Furnish a separate certificate of compliance attesting that hardware items conform to the Section 00700 Contract clauses pertaining to the Buy American Act.

"SD-14 Samples

Locksets; GA.

Furnish a sample of the locksets to be furnished this project. Notify the

Contracting Officer and base personnel for a meeting demonstrating that the locksets to be furnished are fully compatible with the existing keying system. An existing base core, cylinder, and key will be fitted to the sample lockset. The core and cylinder shall fit the lockset without the use of adaptors and without play. The key shall easily lock and unlock the lockset without binding or other difficulties. Control key shall easily remove and install cores."

1.3 PREDELIVERY CONFERENCE

Upon approval of the Hardware Schedule, the construction Contractor shall arrange a conference with the hardware supplier, Contracting Officer and the using agency to determine keying system requirements. Location of the key control storage system, set-up and key identification labeling will also be determined.

1.4 DELIVERY, STORAGE, AND HANDLING

Hardware shall be delivered to the project site in the manufacturer's original packages. Each article of hardware shall be individually packaged in the manufacturer's standard commercial carton or container, and shall be properly marked or labeled to be readily identifiable with the approved hardware schedule. Each change key shall be tagged or otherwise identified with the door for which its cylinder is intended. Where double cylinder functions are used or where it is not obvious which is the key side of a door, appropriate instructions shall be included with the lock and on the hardware schedule. Manufacturer's printed installation instructions, fasteners, and special tools shall be included in each package.

1.5 SPECIAL TOOLS

Special tools, such as those supplied by the manufacturer, unique wrenches, and dogging keys, shall be provided as required to adjust hardware items.

1.6 WARRANTY

Manufacturer's standard performance guarantees or warranties that extend beyond a one year period shall be provided.

1.7 OPERATION AND MAINTENANCE MANUALS

Six complete copies of maintenance instructions listing routine maintenance procedures, possible breakdowns and repairs, and troubleshooting guides shall be provided. The instructions for electric locks, electric strikes, electro-magnetic closer holder release devices, and electric exit devices shall include simplified diagrams as installed.

PART 2 PRODUCTS

2.1 GENERAL HARDWARE REQUIREMENTS

Hardware shall conform to the requirements specified herein and the HARDWARE SETS listing at the end of this section. Hardware set numbers correspond to the set numbers shown on the drawings.

2.2 TEMPLATES

Requirements for hardware to be mounted on metal doors or metal frames

shall be coordinated between hardware manufacturer and door or frame manufacturer by use of templates and other information to establish location, reinforcement required, size of holes, and similar details. Templates of hinges shall conform to BHMA A156.7.

2.3 HINGES

Hinges shall conform to BHMA A156.1. Hinges used on metal doors and frames shall also conform to BHMA A156.7. Except as otherwise specified, hinge sizes shall conform to the hinge manufacturer's printed recommendations.

2.3.1 Hinges for Reverse Bevel Doors with Locks

Hinges for reverse bevel doors with locks shall have pins that are made nonremovable by means such as a set screw in the barrel, or safety stud, when the door is in the closed position.

2.3.2 Contractor's Option

Hinges with antifriction bearings may be furnished in lieu of ball bearing hinges, except where prohibited for fire doors by the requirements of NFPA 80.

2.3.3 Pivot Hinges

Pivot hinges shall conform to BHMA A156.4.

2.4 LOCKS AND LATCHES

To the maximum extent possible, locksets, latchsets and deadlocks, and all components thereof, including cylinders and removable cores, shall be the products of a single manufacturer. Lock fronts for double-acting doors shall be rounded. Strikes for wood frames and pairs of wood doors shall be furnished with wrought boxes.

2.4.1 Mortise Lock and Latchsets

Mortise lock, latchsets, and strikes shall be series 1000 and shall conform to BHMA A156.13, operational Grade 1. Strikes for security doors shall be rectangular without curved lip. Mortise type locks and latches for doors 44 mm thick and over shall have adjustable bevel fronts or otherwise conform to the shape of the door. Mortise locks shall have armored fronts.

2.4.2 Auxiliary Locks and Associated Products

Bored and mortise dead locks and dead latches, narrow style dead locks and dead latches, rim latches, dead latches, and dead bolts, shall conform to BHMA A156.5. Bolt and latch retraction shall be dead bolt style. Strike boxes shall be furnished with dead bolt and latch strikes for Grade 1.

2.4.3 Lock Cylinders (Mortise, Rim and Bored)

Lock cylinders shall comply with BHMA A156.5. Lock cylinder shall have not less than seven pins. Cylinders shall have key removable type cores. A master keying system shall be provided. Construction interchangeable cores shall be provided. Disassembly of lockset shall not be required to remove core from lockset. All locksets, lockable exit devices, and padlocks shall accept same interchangeable cores.

2.4.4 Lock Trim

Lock trim shall be cast, forged, or heavy wrought construction of commercial plain design. In addition to meeting the test requirement of BHMA A156.13, lever handles, and escutcheons shall be 1.27 mm thick, if unreinforced. If reinforced, the outer shell shall be 0.89 mm thick and the combined thickness shall be 1.78 mm. Lever handles shall be of plain design with ends returned to no more than 10 mm from the door face.

2.5 EXIT DEVICES AND EXIT DEVICE ACCESSORIES

Exit devices and exit device accessories shall conform to BHMA A156.3, Grade 1.

2.5.1 Exit Devices and Auxiliary Items

Trim shall be of wrought construction and commercial plain design with straight, beveled, or smoothly rounded sides, corners, and edges. Adjustable strikes shall be provided for rim type and vertical rod devices. Open back strikes shall be provided for pairs of doors with mortise and vertical rod devices; except open back strikes shall be used on labeled doors only where specifically provided for in the published listings. Touch bars shall be provided in lieu of conventional crossbars and arms. Escutcheons shall be provided not less than 175 by 55 mm. Escutcheons shall be cut to suit cylinders and operating trim.

2.5.2 Automatic Flush Bolts

Automatic flush bolts shall be Type 25 in accordance with BHMA A156.3, and shall be installed at the top and bottom of the inactive leaf of pairs of fire rated doors where specified in the hardware sets. Flush bolts shall be mortised in the strike edge of the door.

2.6 KEYING

Locks shall be keyed in sets or subsets as scheduled. **Buildings are to be keyed seperately. AM #0005 Cylinders and cores for building 1522 shall match building 1522 existing keying system. AM #0005** Locks shall be furnished with the manufacturer's standard construction key system. Change keys for locks shall be stamped with change number and the inscription "U.S. Property - Do Not Duplicate." Keys shall be supplied as follows:

Locks:	3 change keys each lock.
Master keyed sets:	3 keys each set.
Control keys:	total.
Construction keys:	5 total.
Blank keys:	200 total.

The keys shall be furnished to the Contracting Officer arranged in a container for key control system storage in sets or subsets as scheduled.

2.7 DOOR CLOSING DEVICES

Door closing devices shall conform to BHMA A156.4, Grade 1. Closing devices shall be products of one manufacturer for each type specified. The

opening resistance of closing devices shall not exceed 67 N applied at the latch stile or exceed 22 N where low opening resistance is scheduled.

2.7.1 Surface Type Closers

Surface type closers shall be Grade 1, Series C02000 Full Cover with options PT-4H, Size 1 or 2 through Size 6, and PT-4D with back check position valve. Except as otherwise specified, sizes shall conform to the manufacturer's published recommendations. Closers for outswinging exterior doors shall have parallel arms or shall be top jamb mounted. Closers for doors close to a wall shall be of narrow projection so as not to strike the wall at the 90-degree open position. Closers on doors accessible to the physically handicapped shall have the closing force set for a push-pull of 2.27 kg (5 pounds) applied at the knob or handle for interior doors; for exterior doors, set to the minimum required to relatch the door.

2.8 DOOR CONTROLS - OVERHEAD HOLDERS

Door controls - overhead holders shall conform to BHMA A156.8.

2.9 ARCHITECTURAL DOOR TRIM

Architectural door trim shall conform to BHMA A156.6.

2.9.1 Door Protection Plates

2.9.1.1 Kick Plates

Kick plates shall be Type J102 stainless steel. Width of plates shall be 50 mm less than door width for single doors and 25 mm less for pairs of doors. Height shall be 400 mm, except where the bottom rail is less than 250 mm the plate shall extend to within 13 mm of the panel mold or glass bead. All four (4) edges of plates shall be beveled.

2.9.1.2 Mop Plates

Mop plates shall be Type J103 stainless steel. Width of plates shall be 50 mm less than door width for single doors and 25 mm less for pairs of doors. The height shall be 100 mm. All four (4) edges of plates shall be beveled.

2.9.2 Push Plates

2.9.2.1 Flat Plates

Flat plates shall be Type J301 1.27 mm thick brass, size 150 mm x 400 mm. Edges of plates shall be beveled.

2.9.3 Door Pulls and Push/Pull Units

2.9.3.1 Door Pulls

Door pulls shall be Category J400 brass of plain modern design. Pulls for hollow metal, mineral core wood or kalamein doors shall be Type J405 thru-bolted to Type J301 flat push plates.

2.9.4 Push and Pull Bars

Push and pull bars shall be Category J500, brass. All four (4) edges of mounting plates shall be beveled.

2.10 AUXILIARY HARDWARE

Auxiliary hardware, consisting of door holders, door stops, , shall conform to BHMA A156.16. Lever extension flush bolts shall be Type L14081. Dust-proof strikes shall be Type L04011 for doors that are not fire rated. Dust-proof strikes shall be Type L04021 for fire rated doors. Other auxiliary hardware of the types listed below, shall conform to BHMA A156.16. Floor mounted door stop risers shall be used on all doorstops that are not of sufficient height to stop the door.

2.11 MISCELLANEOUS

2.11.1 Metal Thresholds

Thresholds shall conform to BHMA A156.21. Thresholds for exterior doors shall be extruded aluminum of the type indicated and shall provide proper clearance and an effective seal with specified weather stripping. Latching thresholds shall be of such height that the bottom of the door shall be 3 mm over the tread of the threshold and 3 mm below the top of the stop. Where required, thresholds shall be modified to receive projecting bolts of flush bolts exit devices. Thresholds for doors accessible to the handicapped shall be beveled with slopes not exceeding 1:2 and with heights not exceeding 13 mm. Air leakage rate of weatherstripping shall not exceed 0.775 liters per second per lineal meter of crack when tested in accordance with ASTM E 283 at standard test conditions.

2.11.2 Rain Drips

Extruded aluminum, not less than 1.78 mm thick, mill finished. Door sill rain drips shall be 38 mm to 44 mm high by 16 mm projection. Overhead rain drips shall be approximately 38 mm high by 63 mm projection and shall extend 50 mm on either side of the door opening width.

2.11.3 Aluminum Housed Type Weatherseals

Weatherseals of the type indicated shall consist of extruded aluminum retainers not less than 1.78 mm wall thickness with vinyl, neoprene, silicone rubber, polyurethane or vinyl brush inserts. Aluminum shall be clear (natural) anodized. Weatherseal material shall be of an industrial/commercial grade. Seals shall remain functional through all weather and temperature conditions. Air leakage rate of weatherstripping shall not exceed 0.775 liters per second per lineal meter of crack when tested in accordance with ASTM E 283 at standard test conditions.

2.11.4 Key Control Storage System

Key control storage system shall conform to BHMA A156.5, Type E8351, capacity 300, and shall be properly labeled for key identification. Set up, identification labeling and location of the key control storage shall be as directed at the Predelivery Conference.

2.11.5 Door Stops

Wall stops, floor stops and combination stop and holders shall conform to BHMA A156.16.

2.12 FASTENINGS

Fastenings of proper type, size, quantity, and finish shall be supplied with each article of hardware. Machine screws and expansion shields shall be used for attaching hardware to concrete or masonry. Fastenings exposed to the weather in the finished work shall be of brass, bronze, or stainless steel. Sex bolts, through bolts, or machine screws and grommet nuts, where used on reverse-bevel exterior doors equipped with half-surface or full-surface hinges, shall employ one-way screws or other approved tamperproof screws. Screws for the jamb leaf of half-mortise and full-surface hinges attached to structural steel frames shall be one-way or other approved tamperproof type.

2.13 FINISHES

Unless otherwise specified, finishes shall conform to those identified in BHMA A156.18. Where painting of primed surfaces is required, painting is specified in Section 09900 PAINTING, GENERAL.

2.14 HARDWARE FOR FIRE DOORS

Hardware for fire doors shall conform to the requirements of NFPA 80 and NFPA 101.

PART 3 EXECUTION

3.1 APPLICATION

Hardware shall be located in accordance with DHI Locations for CSD and DHI Locations for SSD, except that deadlocks shall be mounted 1220 mm above finish floor. When approved, slight variations in locations or dimensions will be permitted. Application shall be in accordance with DHI ANSI/DHI A115.1G or DHI ANSI/DHI A115-W. Door control devices for exterior doors such as closers and holders, shall be attached to doors with thru bolts and nuts or sex bolts. Alternate fastening methods may be approved by the Contracting Officer when manufacturers' documentation is submitted to verify that the fastening devices and door reinforcements are adequate to resist wind induced stresses. Electric hardware items and access control devices shall be installed in accordance with manufacturer's printed installation procedures.

3.1.1 Hardware for Fire Doors and Smoke-Control Door Assemblies

Hardware for fire doors shall be installed in accordance with the requirements of NFPA 80. Exit devices installed on fire doors shall have a visible label bearing the marking "Fire Exit Hardware". Other hardware installed on fire doors, such as locksets, closers, and hinges shall have a visible label or stamp indicating that the hardware items have been approved by an approved testing agency for installation on fire-rated doors. Hardware for smoke-control door assemblies shall be installed in accordance with NFPA 105.

3.1.2 Door-Closing Devices

Door-closing devices shall be installed and adjusted in accordance with the templates and printed instructions supplied by the manufacturer of the devices. Insofar as practicable, doors opening to or from halls and corridors shall have the closer mounted on the room side of the door.

3.1.3 Key Control Storage Systems

Key control storage system shall be installed where directed .

3.1.4 Kick Plates and Mop Plates

Kick plates shall be installed on the push side of single-acting doors and on both sides of double-acting doors. Mop plates shall be installed on the pull side of the single acting doors.

3.1.5 Auxiliary Hardware

Lever extension flush bolts shall be installed at the top and bottom of the inactive leaf of pairs of doors. The bottom bolt shall operate into a dust-proof floor strike or threshold.

3.1.6 Thresholds

Thresholds shall be secured with a minimum of three fasteners per single door width and six fasteners per double door width with a maximum spacing of 300 mm. Exterior thresholds shall be installed in a bed of sealant with expansion anchors and stainless steel screws, except that bronze or anodized bronze thresholds shall be installed with expansion anchors with brass screws. Minimum screw size shall be No. 10 length, dependent on job conditions, with a minimum of 19 mm thread engagement into the floor or anchoring device used. Thresholds shall have ends scribed neatly to jambs

3.1.7 Rain Drips

Door sill rain drips shall align with the bottom edge of the door. Overhead rain drips shall align with bottom edge of door frame rabbet. Drips shall be set in sealant and fastened with stainless steel screws.

3.1.8 Weatherseals

Weatherseals shall be located as indicated, snug to door face and fastened in place with color matched metal screws after door and frames have been finish painted. Screw spacing shall be as recommended by manufacturer.

3.2 OPERATIONAL TESTS

Prior to acceptance of any electrical hardware system, an operational test shall be performed to determine if devices are operating as intended by the specifications. Wiring shall be tested for correct voltage, current carrying capacity, and proper grounding. Stray voltages in lock wiring shall be eliminated to prevent locking devices from releasing in critical situations.

3.3 FIELD QUALITY CONTROL

Supplier shall inspect the completed installation and certify that the hardware has been furnished and installed in accordance with the

manufacturers' instructions and as specified. The inspection report shall identify any malfunctioning items and recommend adjustment or replacement as appropriate.

3.4 HARDWARE SETS

USAR TRAINING CENTER

THW-1 Door no. 101A, 102A, 103A, 104A, 105A, 108A, 109A, 115A, 115B, 117A, 117B, 118A, 120A, 120B, 122A, 122B, 125A, 126A, 127A, 127B, 128A, 128B, 129A, 135A, 137A, 138A, 147A, 150A, 151A, 152A, 157A, 162A, 163A, 164A, 165A, KO3A, 201A, 202A, 203A, 204A, 206A, 207A, 208A, 209A, 210A, 211A, 216A, 216B, 218A, 218B, 221A, 221B, 223A, 225A, 226A, 227A, 229A, 230A, 231A, 233A, 234A, 235A, 243A, 244A, 245A, 248A, 249A, 253A, 254A, 255A, 256A, 257A, 258A, 259A, 260A, 262A, 263A, 264a, 265A, 268A, 269A

3 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
 1 ea. Lockset, F12 x 630 AM #0005
 1 ea. Stop, L55141 x 626 AM #0005

THW-2 Door no. 106A, 106B, 205B

3 ea. Hinges, A2111 AM #0005 x Non Removable pin x Safety Stud x 626 AM #0005
 1 ea. Exit device, type 1, function 08 x 630 AM #0005
 1 ea. Closer, C72021 x 689 AM #0005
 1 ea. Kickplate, J102 x 630
 1 ea. Stop, L12141 x 626 AM #0005

THW-3 Door no. 110A, 131B,

2 ea. Pivots, C07162, by door manufacturer x finish to match door
 1 ea. Intermediate pivot, C07321 by door manufacturer x finish to match door
 1 ea. Closer, C75051 x by door manufacturer x finish to match door
 1 ea. Pull bar, J502 by door manufacturer x factory finish to match door.
 1 ea. Exit device, type 3, function 08 (High Security Cylinder) x finish to match door
 1 ea. Stop, L11371 x ES x 626 AM #0005
 1 set Weatherstripping at head and jambs
 1 ea. Threshold interlocking, J34170 x 628 AM #0005 (with applied hook)

THW-4 Door no. 113A, 159A 215A, 224A(Fire Rated)

6 ea. Hinges, A5111 x 630
 1 ea. Lockset, F12 x 630 AM #0005
 1 ea. Self latching extension flush bolt Type 27 x 626 AM #0005
 1 ea. Dust proof strike, L54021 x 630
 2 ea. Overhead stops, C12511 x 626 AM #0005
 2 ea. Closers, C72021, PT-4G x 689 AM #0005
 2 ea. Kickplates, J102 x 630
 2 ea. Mop plate, J103 x 630 (for 113A & 159A only)

THW-5 Door no. 121A, 123A, 132A, 148A, 149A, 149B
 155C, 219A, 219B, 217A, 240A, 266A (Fire Rated)

3 ea. Hinges, A5111 x Non Removable Pin x Safety Stud x 630
 1 ea. Lockset, F12 x 630 AM #0005
 1 ea. Closer, C72011, PT-4G x 689 AM #0005
 1 ea. Kickplate, J102 x 630
 1 ea. Threshold, as detailed x marble (door 149A only)
 1 ea. Stop, L11371 x ES x 626 AM #0005

THW-6 Door no. 131A

2 ea. Pivots, C07162, by door manufacturer x finish to match door
 1 ea. Intermediate pivot, C07321 by door manufacturer x finish to match door
 1 ea. Closer, C75051 x by door manufacturer x finish to match door
 1 ea. Bar set, J504 by door manufacturer x factory finish to match door.
 1 ea. Door stop, L11371 x ES x 626 AM #0005

THW-7 Door no. 134A, 144A, 241A, 250A

3 ea. Hinges, A5111 x 630
 1 ea. Push Plate, J304 x 630
 1 ea. Pull Plate, J407 x 630
 1 ea. Closer, C72011 x 689 AM #0005
 1 ea. Kickplate, J102 x 630
 1 ea. Mop Plate, J103 x 630
 1 ea. Stop, L52141 x 630
 1 ea. Garment hook, L52131 x 630 AM #0005
 1 ea. Threshold, J32130 x 628

THW-8 Door no. 136A

6 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
 1 ea. Lockset, F12 x 630 AM #0005 (High Security Cylinder)
 1 ea. Self latching extension flush bolt Type 27 x 630
 1 ea. Dust proof strike, L54021 x 630
 2 ea. Overhead stops, C12511 x 626 AM #0005

ACCOMPANYING AMENDMENT NO. 0006 TO SOLICITATION NO. DACA63-01-B-0002

1 set Weatherstripping @ head, jamb, and meeting stiles
 1 ea. Threshold interlocking, J34170 x 628 (with applied hook)

THW-9 Door no. 142A, 246A (Fire Rated)

3 ea. Hinges, A5111 x 630
 1 ea. Lockset, F07 x 630
 1 ea. Closer, C72021 AM #0005 x 689
 1 ea. Kickplate, J102 x 630
 1 ea. Mop plate, J103 x 630
 1 ea. Stop, L11371 x ES x 626 AM #0005
 1 ea. Threshold, as detailed x marble

THW-10 Door on. 143A, 143B

2 ea. Pivots, C07162, by door manufacturer x finish to match door
 2 ea. Intermediate pivot, C07321 by door manufacturer x finish to match door
 2 ea. Closer, C75051 x by door manufacturer x finish to match door
 2 ea. Bar set, J504 by door manufacturer x factory finish to match door.
 2 ea. Door stop, L11371 x ES x 626 AM #0005

THW-11 Door no. 146A (Fire Rated)

By manufacturer

THW-12 Door no. 149C, 161D

3 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #00055
 1 ea. Lockset, F12 x 630 AM #0005 (High Security Cylinder)
 1 ea. Closer, C72021 x 689 AM #0005
 1 ea. Kickplate, J102 x 630
 1 set Weatherstripping @ head and jamb
 1 ea. Door stop, L11371 x ES x 626 AM #0005
 1 set Rain Drip @ Head x 628
 1 ea. Threshold interlocking, J34170 x 628 (with applied hook)

THW-13 NOT USED

THW-14 Door no. 153A, 261A, 205A

6 ea. Hinges, A2111 x 626 AM #0005
 1 ea. Exit device, type 6, Function 08 x RHR x 630 AM #0005
 1 ea. Exit device, type 6, Function 02 x trim to match active door x 630 AM #0005
 2 ea. Closers, C72021 x 689 AM #0005
 2 ea. Kickplates, J102 x 630
 2 ea. Overhead stops, C12541 x 626 AM #0005

THW-15 Door no. 153B, 261B, 205B

3 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
 1 ea. Exit device, Type 1, Function F08 x 630 AM #0005
 1 ea. Closer, C72021 x 689 AM #0005
 1 ea. Kickplate, J102 x 630
 1 ea. Door stop, L11371 x ES x 626 AM #0005

THW-16 Door no. 154A

3 ea. Hinges, A2111 x 626 AM #0005
 1 ea. Lockset, F12 x 630 AM #0005
 1 ea. Closer, C72011 x 689 AM #0005
 1 ea. Kickplate, J102 x 630
 1 ea. Door stop, L11371 x ES x 626 AM #0005

THW-17 Door no. 155A, 155B

4 ea. Pivots, C07162, by door manufacturer x finish to match door
 2 ea. Intermediate pivot, C07321 by door manufacturer x finish to match door
 2 ea. Closer, C75051 x by door manufacturer x finish to match door
 2 ea. Pull bar, J502 by door manufacturer x factory finish to match door.
 1 ea. Exit device, type 3, function 08 (High Security Cylinder) x finish to match door
 1 ea. Exit device, type 3, function 02 x finish to match door
 2 ea. Stop, L11371 x ES x 626 AM #0005
 1 set Weatherstripping at head, jambs and meeting stiles
 1 ea. Threshold interlocking, J34170 x 628 AM #0005 (with applied hook)

THW-18 Door no. 156A, 251A

By manufacturer

THW-19 NOT USED

THW-20 Door no. 158A, 267A (Fire Rated)

3 ea. Hinges, A5111 x Non Removable pin x Safety Stud x 630
 1 ea. Exit device, Type 1, Function 08 x 630 AM #0005
 1 ea. Closer, C72021 x 689 AM #0005
 1 ea. Kickplate, J102 x 630
 1 ea. Stop, L11371 x ES x 626 AM #0005

THW-21 Door no. 161A(Fire Rated)

ACCOMPANYING AMENDMENT NO. 0006 TO SOLICITATION NO. DACA63-01-B-0002

6 ea. Hinges, A5111 x Non Removable pin x Safety Stud x 630
 1 ea. Exit device, type 6, Function 08 x 630 AM #0005
 1 ea. Exit device, type 6, Function 02 x trim to match active door x
630 AM #0005
 2 ea. Closers, C72011, PT-4G x 689 AM #0005
 2 ea. Kickplates, J102 x 630
 2 ea. Stops, L11371 x ES x 626 AM #0005

THW-22 Door no. 161B, 161C

6 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
 1 ea. Lockset, F12 (High Security Cylinder) 630 AM #0005
 1 ea. Self latching extension flush bolt Type 27 x 626 AM #0005
 1 ea. Dust proof strike, L54021 x 630
 2 ea. Overhead stops, C12511 x 626 AM #0005
 2 ea. Closers, C72021, x 689 AM #0005
 2 ea. Kickplates, J102 x 630
 1 set Weatherstripping @ head, jamb, and meeting stiles
 1 ea. Threshold interlocking, J34170 x 628 (with applied hook)
 1 ea. Raindrip @ head x 628

THW -23 Door no. 149D, 149E

By manufacturer

THW-24 Door no. 301A

3 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
 1 ea. Lockset, F12 x 630 AM #0005 (High Security Cylinder)
 1 ea. Closer, C72021 x 689 AM #0005
 1 ea. Kickplate, J102 x 630
 1 set Weatherstripping @ head and jamb
 1 ea. Overhead stop, C12511 x 626 AM #0005
 1 set Rain Drip @ Head x 628
 1 ea. Threshold interlocking, J34170 x 628 (with applied hook)

UNIT STORAGE BUILDING

SHW-1 Door no. 101A

By manufacturer

SHW-2 Door no. 101B, 101C, 101D, 101E, 116A

3 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
 1 ea. Lockset, F12 x 630 AM #0005 (High Security Cylinder)
 1 ea. Closer, C72021 x 689 AM #0005
 1 ea. Kickplate, J102 x 630
 1 set Weatherstripping @ head and jamb
 1 ea. Door stop, L11371 x ES x 626 AM #0005
 1 set Rain Drip @ Head x 628
 1 ea. Threshold interlocking, J34170 x 628 (with applied hook)

ACCOMPANYING AMENDMENT NO. 0006 TO SOLICITATION NO. DACA63-01-B-0002

SHW-3 Door no. 102A, 103A, 104A, 105A, 106A, 107A, 108A, 109A,
110A, 111A, 113A

3 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
1 ea. Lockset, F12 x 630 AM #0005
1 ea. Stop, L12141 x 626 AM #0005

SHW-4 Door no. 112A, 114A

3 ea. Hinges, A2111 x 626 AM #0005
1 ea. Lockset, F12 x 630
1 ea. Closer, C72011 x 689
1 ea. Kickplate, J102 x 630
1 ea. Mop plate, J103 x 630
1 ea. Stop, L11371 x ES x 626 AM #0005
1 ea. Threshold, as detailed x marble

SHW-5 Door no. 115A

6 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
1 ea. Lockset, F12 x 630 AM #0005 (High Security Cylinder)
1 ea. Self latching extension flush bolt Type 27 x 626 AM #0005
1 ea. Dust proof strike, L54021 x 630
2 ea. Overhead stops, C12511 x 626 AM #0005
1 set Weatherstripping @ head, jamb, and meeting stiles
1 ea. Threshold interlocking, J34170 x 628 (with applied hook)

ECS MAINTENANCE BUILDING

MHW-1 Door no. 101A, 104A, 104B, 105A, 107A, 109A,
111A, 111B, 112A, 114A, 116B, 124A

3 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
1 ea. Lockset, F12 x 630 AM #0005 (High Security Cylinder)
1 ea. Stop, L12141 x 626 AM #0005

MHW-2 Door no. 102A

4 ea. Pivots, C07162, by door manufacturer x finish to match door
2 ea. Intermediate pivot, C07321 by door manufacturer x finish to match door
2 ea. Closer, C75051 x by door manufacturer x finish to match door
2 ea. Pull bar, J502 by door manufacturer x factory finish to match door.
1 ea. Exit device, type 3, function 08 (High Security Cylinder) x finish to match door
1 ea. Exit device, type 3, function 02 x finish to match door
2 ea. Stop, L11371 x ES x 626 AM #0005
1 set Weatherstripping at head, jambs and meeting stiles
1 ea. Threshold interlocking, J34170 x 628 AM #0005 (with applied hook)

MHW-3 Door no. 102B

- 2 ea. Pivots, C07162, by door manufacturer x finish to match door
- 2 ea. Intermediate pivot, C07321 by door manufacturer x finish to match door
- 2 ea. Closer, C75051 x by door manufacturer x finish to match door
- 2 ea. Bar set, J504 by door manufacturer x factory finish to match door.
- 2 ea. Door stop, L11371 x ES x 626 AM #0005

MHW-4 Door no. 106A, 108A, 110A,

- 3 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
- 1 ea. Lockset, F12 x 630 AM #0005
- 1 ea. Stop, L12141 x 626 AM #0005
- 1 ea. Closer, C72011 x 689 AM #0005
- 1 ea. Kickplate, J102 x 630
- 1 ea. Mop plate, J103 x 630
- 1 ea. Threshold, as detailed x marble

MHW-5 Door no. 108B

- 3 ea. Hinges, A2111x Non Removable pin x Safety Stud x 626 AM #0005
- 1 ea. Lockset, F12 x 630 AM #0005
- 1 ea. Closer, C72021 AM #0006 x 689 AM #0005
- 1 ea. Kickplate, J102 x 630
- 1 ea. Mop plate, J103 x 630
- 1 ea. Stop, L11371 x ES x 626 AM #0005
- 1 ea. Threshold, as detailed x marble

MHW-6 Door no. 113A, 116A, 117A, 123A

- 3 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
- 1 ea. Lockset, F12 (High Security Cylinder) x 630 AM #0005
- 1 ea. Closer, C72021 x 689 AM #0005 (for 113A only)
- 1 ea. Closer, C72011 x 689 AM #0005 (for 116A, 117A, 123A only)
- 1 ea. Kickplate, J102 x 630
- 1 ea. Door sweep, ROY535 x 628
- 1 set Weatherstripping @ head and jambs
- 1 ea. Stop, L11371 x ES x 626 AM #0005
- 1 ea. Threshold, J32100 x 628

MHW-7 Door no. 115A, 119A, 122A, 123B

- 6 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
- 1 ea. Lockset, F12 x 630 AM #0005 (High Security Cylinder)
- 1 ea. Self latching extension flush bolt, Type 27 x 626 AM #0005
- 1 ea. Dust proof strike, L54021 x 630
- 2 ea. Overhead stops, C12511 x 626 AM #0005
- 1 ea. Threshold, interlocking, J34170 x 628 (with applied hook)

MHW-8 Door no. 118A, 118F, 118K, 118P, 118U, 121A

3 ea. Hinges, A2111 AM #0005 x Non Removable pin x Safety Stud x 626 AM #0005
 1 ea. Lockset, F12 x 630 (High Security Cylinder)
 1 ea. Closer, C72011 x 689
 1 ea. Kickplate, J102 x 630
 1 ea. Threshold, interlocking, J34170 x 628 (with applied hook)
 1 ea. Stop, L11371 x ES x 626 AM #0005

MHW-9 Door no. 118B, 118C, 118D, 118E, 118G, 118H, 118I,
 118J, 118L, 118M, 118N, 118O, 118Q, 118R, 118S, 118T

By manufacturer

BUILDING 1522 RENOVATIONS

RHW-1 Door no. 002A, 002B, 002C,

3 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
 1 ea. Lockset, F12 x 630 AM #0005
 1 ea. Stop, L12141 x 626 AM #0005

RHW-2 Door no. 003A (Fire Rated)

3 ea. Hinges, A2111 x Non Removable pin x Safety Stud x 626 AM #0005
 1 ea. Lockset, F12 x 630 AM #0005
 1 ea. Closer, C72011 x PT-4G x 689 AM #0005
 1 ea. Kickplate, J102 x 630
 1 ea. Stop, L12141 x 626 AM #0005

RHW-3 Door no. 013A, 014A

3 ea. Hinges, A2111 x 626 AM #0005
 1 ea. Lockset, F12 x 630 AM #0005
 1 ea. Closer, C72011 x PT-4G x 689 AM #0005
 1 ea. Kickplate, J102 x 630
 1 ea. Mop plate, J103 x 630
 1 ea. Garmet hook, L52131 x 630 AM #0005
 1 ea. Stop, L12141 x 626 AM #0005
 1 ea. Threshold, as detailed x marble

-- End of Section --