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|--|---|--|--------------------------------|
| 2. AMENDMENT/MODIFICATION NO. 004 | 3. EFFECTIVE DATE September 10, 1998 | 4. REQUISITION/PURCHASE REQ. NO. | 5. PROJECT NO. (If applicable) |
| 6. ISSUED BY Bureau of Reclamation Lower Colorado Region P.O. Box 61470 Boulder City NV 89006-1470 | CODE LC-3114 http://www.lc.usbr.gov/~g3100/ | 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) | (✓) | 9A. AMENDMENT OF SOLICITATION NO. 98-SI-30-12400 |
| | ✓ | 9B. DATED (SEE ITEM 11) August 18, 1998 |
| | | 10A. MODIFICATION OF CONTRACT/ORDER NO. |
| | | 10B. DATED (SEE ITEM 13) |
| 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, [X] is not extended.

Offerors 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 1 copy 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 you 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 APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

| | |
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| (✓) | 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 and return _____ copies to the issuing office.

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

Project Title: Pre-Engineered Carpentry/Sandblast Shop, Boulder Canyon Project, Hoover Dam, Arizona - Nevada

Purpose of Amendment: The purpose of this amendment is to (1) make revisions to the Specifications; (2) delete WBR Clause No. 1452.236-80; and (3) incorporate brand name or equal products.

Receipt of Bids: The date and time for receipt of bids remains September 17, 1998 at 2:00 p.m., local time. The place for receipt of bids remains the Bureau of Reclamation, Lower Colorado Regional Office, Annex Building, Room AA-123, Nevada Hwy and Park Street, Boulder City, Nevada.

Acknowledgment: See block 11 above regarding how to acknowledge this amendment. The acknowledgment must be received at the place designated for receipt of offers (see block 8 of the "Solicitation, Offer, and Award," Standard Form 1442).

Bid Modification: See block 11 above if you have submitted your bid and now desire to modify it or withdraw it.

(Continued on following pages)

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.

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

Description of Changes:

1. Reclamation clause WBR 1452.236-80 Restriction on Submission and Use of Equal Products--Bureau of Reclamation (APR 1992) is deleted.

The brand name specified for the door hardware is added to the list in paragraph H.4. Submission, and use of equal products is not restricted.

Instructions: In Section H, remove pages H-9 thru H-13, and replace with the attached revised pages H-9 thru H-14. In ToC, remove pages i and ii and replace with the attached revised pages i and ii.

2. Revisions are made to the specifications on the pages listed below.

Filing Instructions:

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| | EQUAL PRODUCT OFFERED | Mfr: _____ Address: _____ Product Name (if any): _____ Make/Model/Catalog # _____ |

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|-----------|-----------------------------|--|
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| | EQUAL PRODUCT OFFERED | Mfr: _____ Address: _____ Product Name (if any): _____ Make/Model/Catalog # _____ |

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| NO. 14 | BRAND NAME SPECIFIED | Mfr: McKinney Products Make/Model/Catalog #: Lockset/Sargent Model 8205 LNL US26d L/C Paragraph: 4.1.6.b. |
| | EQUAL PRODUCT OFFERED | Mfr: _____ Address: _____ Product Name (if any): _____ Make/Model/Catalog # _____ |

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| NO. 15 | BRAND NAME SPECIFIED | Mfr: McKinney Products Make/Model/Catalog #: Door Closers/Sargent Model EN350 PSxSNB Paragraph: 4.1.6.b. |
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Materials, contractor design, construction work, and other requirements which are specified by reference to Federal Specifications, Federal Standards, or other standards, specifications, or codes shall be in compliance with the edition or revision date cited below.

| REFERENCED SPECIFICATION OR STANDARD | TITLE | EDITION OR REVISION EFFECTIVE DATE |
|--------------------------------------|---|------------------------------------|
| AASHTO M17 | Mineral Filler for Bituminous Paving Mixtures | 1988 |
| AISC S335 | Specification for Structural Steel Buildings Allowable Stress Design, Plastic Design | 1989 |
| A.I.S.I. | Design and Fabrication of Cold-Formed Steel Structures SG503-76 | 1976 |
| AMCA | Air Movement Control Association | 1996 |
| ANSI/ASME B1.1 | Unified Inch Screw Threads | 1989 |
| ANSI/ASME B1.20.1 | Pipe Threads, General Purpose | 1983 (Revised 1992) |
| ANSI C37.32 | High-Voltage Air Disconnect Switches Interrupter Switches, Fault Initiating Switches, Grounding Switches, Bus supports and Accessories Control Voltage Ranges - Schedule of Preferred Ratings, Construction Guidelines and Specifications | 1990 (Revised 1996) |
| ANSI/IEEE C57 Collection | Collection of C57 Standards | 1995 |
| ANSI/IEEE C57.12.00 | General Requirements for Liquid-Immersed Distribution, Power and Regulating Transformers | 1993 |
| ANSI C57.12.50 | Distribution Transformers 1 to 500 kVA, Single-Phase; and 15 to 500 kVA, Three-Phase with High-Voltage 601-34 500 Volts, Low Voltage 120-600 Volt, Ventilated Dry-Type | 1981 |
| ANSI/IEEE C57.12.70 | Terminal Markings and Connections for Distribution and Power Transformers | 1978 (Revised 1993) |
| ANSI/IEEE C57.12.80 | Terminology for Power and Distribution Transformers | 1978 (Revised 1992) |
| ANSI/IEEE C57.12.90 | Test Code for Liquid-Immersed Distribution, Power and Regulating Transformers and Guide for Short-Circuit Testing of Distribution and Power Transformers | 1993 |
| ASTM A 36 | Carbon Structural Steel | 1996 |
| ASTM A-106 | Seamless Carbon Steel Pipe for High-Temperature Service | 1996 |
| ASTM A-497 | Steel Welded Wire Fabric, Deformed, for Concrete Reinforcement | 1997 |

| REFERENCED SPECIFICATION OR STANDARD | TITLE | EDITION OR REVISION EFFECTIVE DATE |
|--------------------------------------|---|------------------------------------|
| ASTM A-501 | Hot-Formed Welded and Seamless Carbon Steel Structural Tubing | 1993 |
| ASTM A924 | General Requirements for Steel Sheets Metallic Coated by the Hot-Dip Process | 1997A |
| ASTM A653 | Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron-Alloy Coated (Galvannealed) by the Hot-Dip Process | 1998 |
| ASTM A-529 | High-Strength Carbon-Manganese Steel of Structural Quality | 1994 |
| ASTM A-570 | Steel, Sheet and Strip, Carbon, Hot-Rolled, Structural Quality | 1995 |
| ASTM A-572 | High-Strength Low-Alloy Columbium-Vanadium Structural Steel | 1994 |
| ASTM A-615 | Deformed and Plain Billet-Steel Bars for Concrete Reinforcement | 1996, Supp a. |
| ASTM A-617 | Axle-Steel Deformed and Plain Bars for Concrete Reinforcement | 1996 |
| ASTM A-653 | Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process | 1996 |
| ASTM B-3 | Soft and Annealed Copper Wire | 1995 |
| ASTM B-8 | Concentric-Lay Stranded Copper Conductors, Hard, Medium-Hard, or Soft | 1995 |
| ASTM B-88 | Seamless Copper Water Tube | 1993 (Revised 1996) |
| ASTM B-228 | Concentric-Lay-Stranded Copper-Clad Steel Conductors | 1993 |
| ASTM C-33 | Concrete Aggregates | 1993 (Revised 1997) |
| ASTM C-36 | Gypsum Wallboard | 1997 |
| ASTM C-90 | Loadbearing Concrete Masonry | 1997 |
| ASTM C-94 | Ready-Mixed Concrete | 1996 (Revised 1997) |
| ASTM C-144 | Aggregate for Masonry Mortar | 1993 |
| ASTM C-150 | Portland Cement | 1996 (Revised 1997, Edition 1) |
| ASTM C-171 | Sheet Materials for Curing Concrete | 1995 (Revised 1997) |
| ASTM C-207 | Hydrated Lime for Masonry Purposes | 1991 (Revised 1992) |

| REFERENCED SPECIFICATION OR STANDARD | TITLE | EDITION OR REVISION EFFECTIVE DATE |
|--------------------------------------|--|-------------------------------------|
| ASTM C-236 | Steady-State Thermal Performance of Building Assemblies by Means of a Guarded Hot Box | 1989 (Revised 1993) |
| ASTM C-260 | Air-Entraining Admixtures for Concrete | 1995 |
| ASTM C-270 | Mortar for Unit Masonry | 1997, Supp a. |
| ASTM C-404 | Aggregates for Masonry Grout | 1995 (Revised 1997) |
| ASTM C-475 | Joint Compound and Joint Tape for Finishing Gypsum Board | 1994 |
| ASTM C-476 | Grout for Masonry | 1995 |
| ASTM C-754 | Installation of Steel Framing Members to Receive Screw-Attached Gypsum Board | 1995 |
| ASTM C-955 | Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Board and Metal Plaster Bases | 1996 |
| ASTM D-4564 | Density of Soil in Place by the Sleeve Method | 1993 |
| AWS D1.1 | Structural Welding Code-Steel | 1998 |
| Bureau of Reclamation | Concrete Manual | Eighth Edition 1981 Revised Reprint |
| BUREC Standard Specifications | Repair of Concrete | February 1996 (Revised 3/1/90) |
| BUREC RSHS | Reclamation Safety and Health Standards | 1993 |
| FED STD 313D | Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities | 1996 |
| FS QQ-S-775E | Steel Sheets, Carbon, Zinc-Coated (Galvanized) by the Hot-Dipped Process | 1974 |
| FS TT-C-1796A | Calking Compounds, Metal Seam and Wood Seam | 1974 |
| FS TT-E-490E | Enamel, Silicone Alkyd Copolymer, Semigloss | 1982 |
| FS TT-P-19D | Paint, Latex (Acrylic Emulsion, Exterior) | 1992 |

| REFERENCED SPECIFICATION OR STANDARD | TITLE | EDITION OR REVISION EFFECTIVE DATE |
|--------------------------------------|---|------------------------------------|
| FS TT-P-664D | Primer Coating, Alkyd, Corrosion-Inhibiting, Lead and Chromate Free, Compliant | 1992 |
| IEEE 81 | Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Ground System (Part 1) | May 1993 |
| IEEE 837 | Qualifying Permanent Connections Used in Substation Grounding | 1989 (Rev 1996) |
| MBMA | Metal Building Systems Manual - Recommended Guide Specifications for Metal Building Systems | 1996 |
| MBMA-01 | Metal Building Design, Recommended Design Practices Manual | 1996 |
| NDOT | Standard Specifications for Road and Bridge Construction | 1986 |
| NEMA MG1 | Motors and Generators | 1993 (Rev 1 & 2(X)) |
| NFPA 101 | Safety to Life from Fire in Buildings and Structures | 1997 |
| SSPC-SP6 | Commercial Blast Cleaning | 1991 (Revised 1994) |
| UL Standard No. 467 | Grounding and Bonding Equipment | 2993 (Rev thru Aug 1996) |
| UL Standard No. 559 | Heat Pumps | 1985 |
| USBR 7205 | Earth Manual, Part 2 | Third Edition |
| Water and Power Resources Service | (Curing Compound) | October 1, 1980 |

H.6 WBR 1452.236-904 AVAILABILITY AND USE OF UTILITY SERVICES--BUREAU OF RECLAMATION--LOWER COLORADO REGION (NOV 1996)

In accordance with FAR 52.236-14, Availability and Use of Utility Services, incorporated by reference in Section I, the following utility services will be made available under the contract:

- a. Water from existing hydrants will be available to the Contractor for construction purposes. Such water may be used for construction purposes at no cost to the Contractor (see paragraph 1.3.5 Water for Construction Purposes). Facilities are provided on an as-is, where-found basis.

~~H.7 — WBR 1452.236-80 RESTRICTION ON SUBMISSION AND USE OF EQUAL
PRODUCTS--BUREAU OF RECLAMATION (APR 1992)~~

Notwithstanding the "Material and Workmanship" clause of this contract, or any other contractual provision, "or equal" products will not be considered for the following "brand name" product:

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| NO. 1 | BRAND NAME SPECIFIED | Mfr: McKinney Products Make/Model/Catalog #: Door Hardware for Sargent Maximum Security _____ System Paragraph: 4.1.6.b. |
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mastic with the upper and lower panels. At roof end laps, one or two beads, 1/4" each, permanently pliable mastic shall be applied.

Fasteners for roof panels shall be installed in the flat of the panel at a spacing of 1 foot on center except at end laps and terminal ends, where the spacing shall be a nominal 6 inches on center. Fasteners for wall panels shall be installed in the flat of the panel at a spacing of 1 foot on center.

Damaged or defective areas of paint or galvanizing shall be cleaned and repaired in accordance with recommendations of the building manufacturer.

Care shall be taken to ensure that all parts are installed in correct position and alignment. The building anchor bolts shall be located accurately and shall be held in correct position and alignment during placing and setting of the concrete.

Baseplates shall be leveled or aligned carefully, adjusted to correct alignment and grade with steel shims as necessary and rigidly secured in place. Spaces under the baseplates shall be filled completely with grouting mortar according to Paragraph 3.4.2. (Grouting Mortar).

The ridge, eaves, corners, and panel joints shall be closed and sealed watertight.

4.1.6. HINGED DOORS

a. General.--The Contractor shall furnish and install standard hinged doors at the locations shown on the specification drawings or approved submittal drawings. The doors shall be 3'-0" x 7'-0" x 1-3/4", single swing, flush panel metal doors.

b. Door and Frame.--The 3-foot 0-inch by 7-foot 0-inch hollow core steel doors shall meet the requirements of SDI-100 published by the Steel Door Institute. The door shall be ~~grade III; model 3;~~ **16 gage** galvanized steel, with flush end closure treatment at top and internal construction of polyurethane core, polystyrene core, or steel vertical stiffeners and fiberglass insulation. The frame shall be a hollow steel frame constructed of 14-gauge, minimum, galvanized steel. The doors and frames shall be bonderized and furnished with one finish coat ~~of oven baked rust inhibiting alkyd white enamel primer~~ **primer** paint meeting the manufacturer's specifications. The doors shall have a paint finish coat matching the building trim color.

~~The Government's existing security lock system is the Sargent Maximum Security System as manufactured by Sargent and Manufacturing Company. The Contractor shall provide all necessary door lock hardware for Sargent Maximum Security System, manufactured by McKinney Products, except the lock cylinders and keying which will be Government-furnished. The door lock hardware provided by the Contractor shall be fully compatible with the Sargent KESO Security System lock cylinders. The Contractor shall install the Government-furnished lock cylinders. Hinges shall be full mortise.~~

The Contractor shall furnish the following:

- % **(1) Lockset. - Sargent model 8205 LNL US26d L/C or equal having the following**
- % **salient characteristics:**
- % **Mortise lockset with heavy duty case, office style with exterior key and interior**
- % **turn lever, rose trim, Satin chrome finish, "L" style handle.**
- % **(2) Strike. - Curved lip, stainless steel.**
- % **(3) Hinges. - Full mortise, 4.5 ", standard commercial quality, stainless steel.**
- % **(4) Door closers - Sargent model EN350 PSxSNB or equal having the following**
- % **salient characteristics:**
- % **Rack and Pinion construction, one-piece fully-concealed closer body, heavy**
- % **duty forged steel arms, aluminum enamel finish, suitable for use with the**
- % **supplied doors.**

Each door shall be provided with an aluminum threshold and a prepainted white drip. The junction of the door frame and wall panels shall be made weathertight by the use of a trim and sealant. The cross section of the trim shall be subject to approval of the Contracting Officer.

c. Submittals.--At least 20 days prior to purchasing the door hardware the Contractor shall submit manufacturers catalog sheets and data showing that the door hardware chosen meets all of the requirements of these specifications.

d. Cost.--The cost for furnishing and installing hinged doors, door hardware and installing the Government-furnished lock cylinders, including all labor and materials, shall be included in the lump sum price offered in the schedule for furnishing and erecting the pre-engineered metal building.

4.1.7. INSULATED STEEL ROLLING DOORS

a. General. -- The Contractor shall provide manually-operated insulated steel rolling doors with weatherstripping for the shop building as shown on the drawing. The insulated steel rolling doors shall be complete with hood, barrel, door curtain, guides, counterbalance assembly, manual operator assembly, weather seals, and all accessory material required for complete installation.

The steel rolling doors shall be a product of a manufacturer regularly engaged in the manufacture of insulated steel rolling doors of the type specified. The door curtain shall be inside mounted between jambs with outside face flat in appearance.

The insulated steel rolling doors shall be designed to minimize the infiltration of wind, water, sand and dust and shall be designed for a wind pressure of not less than 25 pounds per square foot. The door shall be mounted on the interior face of the wall.

b. Submittals. -- Submittals shall be in accordance with this paragraph and paragraph 1.4.3. (Submittal Requirements).

(1) Shop drawings. -- At least 30 days before shipment to the jobsite, submit shop drawings and data covering details of the insulated steel rolling doors and hardware. Show size and location of door framing and reinforcement; gages of steel, thickness and type of insulation, "R" factor of door curtain, details and location of manual operator and door hardware, details of guides and brackets, details of weatherstripping, and other details covering fabrication and installation of the doors and frames.

(2) Product data. -- Include manufacturer's catalog sheets, specifications, color charts, and information showing that material and equipment are in accordance with these specifications.

(3) Installation data. -- Submit manufacturer's installation data.

(4) Maintenance data. -- Submit manufacturer's maintenance data.

c. Materials. -- The insulated steel rolling doors shall be the 625 Series "Stormtite" insulated rolling door manufactured by Overhead Door Company, P.O. Box 809046, Dallas TX 75380-9046; or the "Thermal-Door" insulated rolling door manufactured by Atlas Door Corporation, 116 Truman Drive, Edison NJ 08818; or equal, having the following salient characteristics:

(1) Structural steel. -- ASTM A 36.

(2) Sheet steel. -- ASTM A653 with not less than G-90 zinc coating. General requirements shall be in accordance with ASTM A924.