

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE 1 OF 2 PAGES
2. AMENDMENT/MODIFICATION NO. AM-0009	3. EFFECTIVE DATE 3/4/02	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>			(√)	9A. AMENDMENT OF SOLICITATION NO. DACA83-02-R-0003
			(X)	9B. DATED <i>(SEE ITEM 11)</i> 12/07/01
				10A. MODIFICATION OF CONTRACTS/ORDER NO.
				10B. DATED <i>(SEE ITEM 13)</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 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.

(√)	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.)*

FY022 MCA PN 50846 COLD STORAGE FACILITY, AND FY01 RDT&E REPAIR WATER TANKS, U.S. ARMY KWAJALEIN ATOLL

(See page 2 of 2 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.

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	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
_____ <i>(Signature of person authorized to sign)</i>		BY _____ <i>(Signature of Contracting Officer)</i>	

INSTRUCTIONS

Instructions for items other than those that are self-explanatory, are as follows:

(a) Item 1 (Contract ID Code). Insert the contract type identification code that appears in the title block of the contract being modified.

(b) Item 3 (Effective date).

(1) For a solicitation amendment, change order, or administrative change, the effective date shall be the issue date of the amendment, change order, or administrative change.

(2) For a supplemental agreement, the effective date shall be the date agreed to by the contracting parties.

(3) For a modification issued as an initial or confirming notice of termination for the convenience of the Government, the effective date and the modification number of the confirming notice shall be the same as the effective date and modification number of the initial notice.

(4) For a modification converting a termination for default to a termination for the convenience of the Government, the effective date shall be the same as the effective date of the termination for default.

(5) For a modification confirming the contracting officer's determination of the amount due in settlement of a contract termination, the effective date shall be the same as the effective date of the initial decision.

(c) Item 6 (Issued By). Insert the name and address of the issuing office. If applicable, insert the appropriate issuing office code in the code block.

(d) Item 8 (Name and Address of Contractor). For modifications to a contract or order, enter the contractor's name, address, and code as shown in the original contract or order, unless changed by this or a previous modification.

(e) Items 9, (Amendment of Solicitation No.-Dated), and 10, (Modification of Contract/Order No.-Dated). Check the appropriate box and in the corresponding blanks insert the number and date of the original solicitation, contract, or order.

(f) Item 12 (Accounting and Appropriation Data). When appropriate, indicate the impact of the modification on each affected accounting classification by inserting one of the following entries:

(1) Accounting classification
Net increase \$.....

(2) Accounting classification
Net decrease \$.....

NOTE: If there are changes to multiple accounting classifications that cannot be placed in block 12, insert an asterisk and the words "See continuation sheet".

(g) Item 13. Check the appropriate box to indicate the type of modification. Insert in the corresponding blank the authority under which the modification is issued. Check whether or not contractor must sign this document. (See FAR 43.103.)

(h) Item 14 (Description of Amendment/Modification).

(1) Organize amendments or modifications under the appropriate Uniform Contract Format (UCF) section headings from the applicable solicitation or contract. The UCF table of contents, however, shall not be set forth in this document.

(2) Indicate the impact of the modification on the overall total contract price by inserting one of the following entries:

(i) Total contract price increased by \$.....

(ii) Total contract price decreased by \$.....

(iii) Total contract price unchanged.

(3) State reason for modification.

(4) When removing, reinstating, or adding funds, identify the contract items and accounting classifications.

(5) When the SF 30 is used to reflect a determination by the contracting officer of the amount due in settlement of a contract terminated for the convenience of the Government, the entry in Item 14 of the modification may be limited to -

(i) A reference to the letter determination; and

(ii) A statement of the net amount determined to be due in settlement of the contract.

(6) Include subject matter or short title of solicitation/contract where feasible.

(i) Item 16B. The contracting officer's signature is not required on solicitation amendments. The contracting officer's signature is normally affixed last on supplemental agreements.

1. CHANGES TO SPECIFICATIONS: Attached hereto are new and revised pages and sections to the specifications. The revised mark "AM-0009" is shown on each page.

A. REVISED PARAGRAPHS. Following are revised paragraphs to the specifications. Changes are indicated in **bold**. The following are new, revised, and deleted paragraphs to the specification.

DIVISION 01 COLD STORAGE SUBMITTAL REGISTER
- Page 12 of 32, Section 07225

Section 02200 DEMOLITION
- paragraphs: 3.2, 3.2.1, 3.2.1.1 and 3.2.2

Section 07225 REFRIGERATED FLOOR INSULATION
- paragraphs: 2.1.3, 2.2.3 and 3.2.1

Section 11551 PALLET STORAGE RACKS
- paragraphs: 2.1.1 and 2.1.2

B. NEW PAGES. Following is a new page to the solicitation:

MIL-R-43900B (See response to question 47c in section 00900)

2. CHANGES TO DRAWINGS

REVISED DRAWINGS (ISSUED: 02/15/02). The following are revised drawings replace like-number drawings and are issued herewith:

<u>RING</u>	<u>DRAWING SHEET</u>		<u>LETTER</u>	<u>TITLE</u>
<u>NO.</u>	<u>NO.</u>	<u>NO.</u>		
5	432-10-01	C-2	c	SCHEDULE OF DRAWINGS
26	432-10-01	A-9	c	WALL SECTIONS
27	432-10-01	A-10	c	WALL SECTIONS
28	432-10-01	A-11	c	WALL TYPES
32	432-10-01	A-15	c	PALLET RACK PLAN, ELEVATIONS AND SECTIONS

3. The proposal due date of 03/08/02 is hereby extended to March 22, 2002, 2:00 P.M. Hawaiian Standard Time (HST).

ATTACHMENT 1MTL-R-43900B

(3) A certified test report from a recognized independent testing laboratory acceptable to the Contracting Officer with the advice of the Army Surgeon General, indicating that the refrigerators or freezers have been tested and conform to the applicable requirements of NSF 7.

3.4 Materials and components. Materials and components shall be as specified herein. Materials and components not definitely specified shall be of the quality normally used by the manufacturer provided the completed item complies with all provisions of this document (see 6.4).

3.4.1 Insulation. Insulation shall be foamed-in-place polyurethane material and shall have a manufacturers rated "K" factor of not more than 0.15. Insulation shall have a free rise density of not less than 1.7 pounds per cubic foot when tested as specified in 4.6.4.1, or an in-place density of not less than 2 pounds per cubic foot when tested as specified in 4.6.4.2.

3.4.2 Refrigerant. The refrigerant shall conform to type 12 (dichlorodifluoromethane), 22 (monochlorodifluoromethane) or 502 (monochlorodifluoromethane/monochloropentafluorethane) of BB-F-1421.

3.5 Design and construction. The refrigerators or freezers shall be of floorless design for style A and floor panel design for style B. The prefabricated refrigerators or freezers shall be furnished in the sizes specified in 1.2, with a tolerance of minus 6 inches. Size 6 and 9 shall have a tolerance of minus 9 inches and size 12 shall be minus 7 inches. An evaporator and condensing unit sized for each refrigerator or freezer specified, shall be furnished. Insulated floor screeds shall be furnished with each style A refrigerator. The floor screeds shall be insulated with a minimum of 2-1/2 inches of foamed insulation. Style B floor panel design, shall be a minimum of 4 inch thick foamed insulation sandwiched between galvanized steel interior skin having a minimum thickness of 0.063 inches and patterned exterior aluminum skin 0.040 inches thick, minimum. When specified floor panel interior skins shall be 0.059 inches thick, type 304 stainless steel (see 6.2). The panels shall form an airtight vaporproof joint when assembled and the joint shall be formed by gaskets or basic foam construction, and patterned aluminum exterior skin, 0.040 inches thick. The panels shall have panel fasteners with cam type action. The panel fasteners shall not protrude from the panels when in the retracted position. Two sets of erection tools, compatible with the fasteners, shall be furnished with each refrigerator or freezer. The panels shall assemble to each other and no special tools, other than furnished, shall be necessary to assemble or disassemble the panels when tested as specified in 4.6.1. A heated type pressure relief port shall be provided for type II freezers. The refrigeration units (see 3.5.5) shall be remotely located and designed to maintain the interior temperature of the type I refrigerators at 37 deg. F, plus or minus 3 deg. F and

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		01320	SD-01 Preconstruction Submittals														
			Preliminary Project Schedule	3.4.1	FIO												
			Initial Project Schedule	3.4.2	FIO												
			Periodic Schedule Updates	3.4.3	FIO												
			SD-06 Test Reports														
			Narrative Report	3.5.2	FIO												
			Schedule Reports	3.5.4	FIO												
			SD-07 Certificates														
			Qualifications	1.2	FIO												
		01430	SD-11 Closeout Submittals														
			Environmental Protection Plan		G RE												
		01452	SD-07 Certificates														
			Special Inspector	1.3	G ED												
			Quality Assurance Plan	1.4	G ED												
		01572	SD-07 Certificates														
			Construction Waste Management Plan	1.3	FIO												
		01780	SD-02 Shop Drawings														
			As-Built Drawings	1.2.1	FIO												
			SD-03 Product Data														
			As-Built Record of Equipment and Materials	1.2.2	FIO												
			Warranty Management Plan	1.3.1	FIO												
			Warranty Tags	1.3.5	FIO												
			Final Clean-Up	1.6	FIO												
		01900	SD-01 Preconstruction Submittals														

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		01900	Progress Chart	1.2.1	G RE												
			Bar Chart	1.2.1	G RE												
			SD-02 Shop Drawings														
			As-Built Drawings	1.4	FIO												
			SD-03 Product Data														
			Equipment Data	1.2.2	FIO												
			Recovered Material Report	1.2.3	FIO												
			SD-07 Certificates														
			Products Containing Recovered Materials	1.13	FIO												
			SD-08 Manufacturer's Instructions														
			Inspection of Existing Conditions	1.2.4	G RE												
			Dust Control	1.5	G RE												
			Excavation/Trenching Clearance	1.2.5	G RE												
			Condition of Contractor's Operation or Storage Area	1.2.6	G RE												
		02120	SD-03 Product Data														
			Notices of Non-Compliance and Notices of Violation	1.2.1	FIO												
			On-site Hazardous Waste Management	3.1	G RE												
			SD-06 Test Reports														
			Recordkeeping	3.6	G RE												
			Spill Response	3.7	G RE												
			Exception Reports	3.6	G RE												
			SD-07 Certificates														

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		02120	Qualifications	1.3	G RE												
			EPA Off-Site Policy	3.2.2	G RE												
			Management Plan	3.1.2	G RE												
			Shipping Documents and Packagings Certification	3.2.3	G RE												
		02220	SD-08 Manufacturer's Instructions														
			Work Plan	1.4	G RE												
		02315	SD-09 Manufacturer's Field Reports														
			Testing		FIO												
		02316	SD-06 Test Reports														
			Field Density Tests	3.4.3	FIO												
			Testing of Backfill Materials	3.4.2	FIO												
		02510	SD-03 Product Data														
			Installation	3.1	FIO												
			Waste Water Disposal Method		FIO												
			Satisfactory Installation		FIO												
			SD-06 Test Reports														
			Bacteriological Disinfection	3.3.1	FIO												
		02531	SD-07 Certificates														
			Portland Cement	2.7.1	FIO												
			Joints	2.3	FIO												
		02532	SD-06 Test Reports														
			Hydrostatic Tests	3.2	G RE												
		02630	SD-03 Product Data														
			Placing Pipe	3.3	FIO												

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		02630	SD-04 Samples														
			Pipe for Culverts and Storm Drains	2.1	FIO												
			SD-07 Certificates														
			Resin Certification	2.1.2	FIO												
			Pipeline Testing	3.7	FIO												
			Hydrostatic Test on Watertight Joints	2.4	FIO												
			Determination of Density	3.6.5	FIO												
			Frame and Cover for Gratings		FIO												
		02722	SD-03 Product Data														
			Plant, Equipment, and Tools	1.5	FIO												
			SD-06 Test Reports														
			Sampling and testing	1.4	FIO												
			Field Density Tests	1.4.2.4	G ED												
		02754	SD-03 Product Data														
			Equipment	1.6	FIO												
			Paving	3.4	FIO												
			Mixture Proportions	2.11	G ED												
		02763	SD-03 Product Data														
			Equipment		FIO												
			Composition Requirements		FIO												
			Qualifications		FIO												
			SD-06 Test Reports														
			Sampling and Testing		FIO												
			SD-07 Certificates														

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		02763	Volatile Organic Compound (VOC)		FIO												
		02770	SD-03 Product Data Concrete	2.1	FIO												
			SD-06 Test Reports Field Quality Control	3.8	FIO												
		02821	SD-07 Certificates Chain Link Fence	2.1.1	FIO												
		03100	SD-03 Product Data Design	1.3	FIO												
			Form Materials	2.1	FIO												
			Form Releasing Agents	2.1.5	FIO												
		03151	SD-03 Product Data Splicing Waterstops	2.2.2	G RE												
			SD-04 Samples Field Molded Sealants and Primer	2.1.2.1	FIO												
			Waterstops	2.1.3	FIO												
			SD-06 Test Reports Premolded Expansion Joint Filler Strips	2.1.1	FIO												
			Compression Seals and Lubricant	2.1.2.2	FIO												
			Metallic Waterstops	2.1.3.2	FIO												
		03200	SD-02 Shop Drawings Reinforcement	3.1	G RE												
			SD-03 Product Data Welding	1.3	G RE												

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		03200	SD-07 Certificates														
			Reinforcing Steel	2.1	G RE												
		03230	SD-02 Shop Drawings														
			Installation Drawings	3.1.2	G ED												
			SD-03 Product Data														
			Prestressing Method and Equipment	3.1.1	G ED												
			Materials Disposition Records	3.3	FIO												
			Prestressing Operations Records	3.1.7	FIO												
			SD-06 Test Reports														
			Stressing Tendons and Accessories	2.1	FIO												
			SD-07 Certificates														
			Certification of Prestressing Technicians	1.3	FIO												
		03300	SD-03 Product Data														
			Mixture Proportions	1.7	G RE												
			SD-06 Test Reports														
			Testing and Inspection for Contractor Quality Control	3.14	G RE												
			SD-07 Certificates														
			Qualifications	1.3	FIO												
		03410	SD-02 Shop Drawings														
			Precast/Prestressed Units	1.3	G AE												
			SD-03 Product Data														
			Precast/Prestressed Units	1.3	G AE												

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		03410	SD-06 Test Reports														
			Tests	2.2	G AE												
		03411	SD-02 Shop Drawings														
			Drawings of precast members	1.7.1	G AE												
			SD-03 Product Data														
			inserts	2.2.7.1	FIO												
			Bearing pads	2.2.8	FIO												
			SD-05 Design Data														
			design calculations	1.7.2	G AE												
			Concrete mix design	1.7.3	FIO												
			SD-06 Test Reports														
			Contractor-furnished mix design	2.1	FIO												
			SD-07 Certificates														
			Fabrication	2.3	FIO												
			SD-11 Closeout Submittals														
			batch ticket	1.7.4	FIO												
		03415	SD-02 Shop Drawings														
			Erection	3.9	G AE												
			SD-03 Product Data														
			Erection Plan	3.9.5	G AE												
			Design Calculations	1.3.1.3	G AE												
			Concrete Mixture Proportions	2.2	G AE												
			Construction Records	3.10	FIO												
			SD-04 Samples														
			Precast Panel	1.4	G AE												
			SD-06 Test Reports														

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		03415	Materials	2.1	G AE												
			Concrete	1.3.2.2	G AE												
			SD-07 Certificates														
			Cement	2.1.1	G AE												
			Air-Entraining Admixture	2.1.2.2	G AE												
			Water-Reducing Admixture	2.1.2.2	G AE												
			Accelerating Admixture		G AE												
			Aggregates	2.1.2.1	G AE												
			Air Content	1.3.2.3	FIO												
		04200	SD-02 Shop Drawings														
			Masonry Work		G RE												
			SD-04 Samples														
			Concrete Masonry Units (CMU)	2.2	G ED												
			Anchors, Ties, and Bar Positioners	2.6	G ED												
			Expansion-Joint Materials	2.10	G ED												
			Joint Reinforcement	2.7	G ED												
			SD-06 Test Reports														
			Field Testing of Mortar	3.15.1	G RE												
			Field Testing of Grout	3.15.2	G RE												
			Masonry Cement	2.4	G RE												
			SD-07 Certificates														
			Concrete Masonry Units (CMU)	2.2	G RE												
			Anchors, Ties, and Bar Positioners	2.6	G RE												
			Joint Reinforcement	2.7	G RE												

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		04200	Reinforcing Steel Bars and Rods	2.8	G RE												
			Masonry Cement	2.4	G RE												
			Mortar Admixtures	2.4.1	G RE												
			Grout Admixtures	2.5.1	G RE												
		05090	SD-03 Product Data														
			Welding Procedure Qualifications	1.5	G RE												
			Welder, Welding Operator, and Tacker Qualification	1.6	G RE												
			Inspector Qualification	1.7	G RE												
			Previous Qualifications	1.5.1	G RE												
			Prequalified Procedures	1.5.2	G RE												
			SD-06 Test Reports														
			Quality Control	3.2	G RE												
		05120	SD-02 Shop Drawings														
			Structural Connections	3.1.1	G RE												
			SD-03 Product Data														
			Welding	3.2	G RE												
			SD-04 Samples														
			Carbon Steel Bolts and Nuts	2.4	FIO												
			Nuts Dimensional Style	2.5	FIO												
			Washers	2.6	FIO												
			SD-07 Certificates														
			Mill Test Reports		G RE												
			Welder Qualifications		G RE												
			Welding Inspector	1.5	G RE												
		05400	SD-02 Shop Drawings														

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		05400	Framing Components	2.1	FIO												
			SD-07 Certificates														
			Mill Certificates		FIO												
			Welds	3.2.1	FIO												
		05500	SD-02 Shop Drawings														
			Steel Pipe Bollards	3.1.1	FIO												
			Canopy Framing	3.1.2	FIO												
			Refrigerant Rack Frames	3.1.3	FIO												
			Stainless Steel Fixed Ladder	3.1.4	FIO												
			Stainless Steel Pipe Bicycle Racks	3.1.5	FIO												
			Stainless Steel Mechanical Enclosure Gate	3.1.6	FIO												
			Handhole Concrete Cover	3.1.7	FIO												
			Checker Plate at Door D-35	3.1.8	FIO												
		06100	SD-07 Certificates														
			Grading and Marking	2.1.1	FIO												
		06200	SD-02 Shop Drawings														
			Finish Carpentry	2.1	FIO												
			SD-03 Product Data														
			Laminated Plastic	2.1.6	FIO												
			SD-04 Samples														
			Laminated Plastic	2.1.6	FIO												
		06600	SD-02 Shop Drawings														
			FRP Shapes and Gratings	2.1.1	FIO												
			SD-03 Product Data														

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		06600	FRP Shapes and Gratings	2.1.1	FIO												
			SD-07 Certificates														
			FRP Shapes and Gratings	2.1.1	FIO												
		07132	SD-03 Product Data														
			Reinforcing Fabric	3.2.2	FIO												
			Protection Board	3.4.2	FIO												
			Applications	2.1.2	FIO												
			SD-07 Certificates														
			Materials	1.4	FIO												
		07212	SD-03 Product Data														
			Sound Attenuation Batt Insulation	2.1.1	FIO												
			Accessories	2.2	FIO												
			SD-08 Manufacturer's Instructions														
			Sound Attenuation Batt Insulation	2.1.1	FIO												
		07220	SD-03 Product Data														
			Application of Insulation	3.6	FIO												
			Inspection	3.7	FIO												
			SD-07 Certificates														
			Insulation	2.2	FIO												
		07225	SD-02 Shop Drawings														
			Refrigerated Floor Insulation	1.2.1	FIO												
			SD-03 Product Data														
			Refrigerated Floor Insulation	1.2.1	FIO												
			SD-04 Samples														
			Insulation	2.1.1	FIO												
			Vapor Barrier	2.1.3	FIO												

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		07225	DELETE	2.1.3	FIO												
		07240	SD-02 Shop Drawings														
			Drawings	2.2.1	FIO												
			Drawings	3.7.1	FIO												
			SD-03 Product Data														
			Exterior Insulation and Finish System	1.3	FIO												
			Exterior Insulation and Finish System	1.3	FIO												
			Water Vapor Transmission Analysis	1.5	FIO												
			SD-04 Samples														
			Exterior Insulation and Finish System	1.3	FIO												
			SD-06 Test Reports														
			Exterior Insulation and Finish System	1.3	FIO												
			SD-07 Certificates														
			Qualifications	1.6.1	FIO												
			Qualifications	1.6.1	FIO												
			Third Party Inspection	3.9.1	FIO												
			Installer	3.2	FIO												
			Warranty	1.9	FIO												
			Insulation Board	2.2	FIO												
			Quality Control	3.9.2	FIO												

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		07240	SD-10 Operation and Maintenance Data														
			Exterior Insulation and Finish System	1.3	FIO												
		07416	SD-02 Shop Drawings														
			Structural Standing Seam Metal Roof System	1.5.2	FIO												
			SD-03 Product Data														
			Design Analysis		FIO												
			Qualifications		FIO												
			SD-04 Samples														
			Accessories	2.3	FIO												
			Roof Panels	2.1	FIO												
			Factory Color Finish	2.5	FIO												
			Fasteners	2.4	FIO												
			Gaskets and Insulating Compounds	2.7	FIO												
			Sealant	2.6	FIO												
			Concealed Anchor Clips	2.2	FIO												
			SD-06 Test Reports														
			Test Report for Uplift Resistance of the SSSMR	1.5.1	FIO												
			SD-07 Certificates														
			Structural Standing Seam Metal Roof System	1.5.2	FIO												
		07510	SD-03 Product Data														

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		07510	Inspection	3.16	FIO												
			SD-07 Certificates														
			Bitumen	2.2	FIO												
			Felt	2.5	FIO												
			Cants	2.4	FIO												
		07600	SD-02 Shop Drawings														
			Materials	2.1	FIO												
		07840	SD-02 Shop Drawings														
			Firestopping Materials	2.1	FIO												
			SD-07 Certificates														
			Firestopping Materials	2.1	FIO												
			Installer Qualifications	1.5	FIO												
			Inspection	3.3	FIO												
		07900	SD-03 Product Data														
			Backing	2.1	FIO												
			Bond-Breaker	2.2	FIO												
			Sealant	2.4	FIO												
			SD-07 Certificates														
			Sealant	2.4	FIO												
		08210	SD-02 Shop Drawings														
			Fire Doors	3.1.2	FIO												
			Wood Doors and Frames	1.3.1	FIO												
			SD-07 Certificates														
			Fire Doors	3.1.2	FIO												
			Adhesives	2.1.3	FIO												
		08250	SD-02 Shop Drawings														

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		08250	FRP Doors and Frames	2.1	FIO												
			SD-03 Product Data														
			FRP Doors and Frames	2.1	FIO												
			SD-07 Certificates														
			FRP Doors and Frames	2.1	FIO												
		08560	SD-02 Shop Drawings														
			Vinyl Windows	2.1	FIO												
			Insect Screens	2.6	FIO												
			SD-03 Product Data														
			Vinyl Windows	2.1	FIO												
			Insect Screens	2.6	FIO												
			Installation	3.1	FIO												
			Cleaning	3.3	FIO												
			SD-04 Samples														
			Finish	2.5	FIO												
			SD-07 Certificates														
			Vinyl Windows	2.1	FIO												
			Insect Screens	2.6	FIO												
		08700	SD-03 Product Data														
			Hardware Schedule	1.3	FIO												
			Keying	2.5	G RE												
			Keying System	1.2.1	G RE												
			SD-07 Certificates														
			Hardware and Accessories	1.2.2	FIO												
		08810	SD-02 Shop Drawings														
			Installation	3.2	FIO												

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		08810	SD-03 Product Data														
			Glazing Accessories	2.3	FIO												
		09250	SD-02 Shop Drawings														
			Steel Framing	2.5.1	FIO												
			Steel Framing	3.1	FIO												
			SD-07 Certificates														
			Gypsum Wallboard	2.4.1	FIO												
			Gypsum Wallboard	3.7	FIO												
			Steel Framing	2.5.1	FIO												
			Steel Framing	3.1	FIO												
			Cementitious Backer Units	2.6	FIO												
		09310	SD-03 Product Data														
			Tile	2.1	FIO												
			Tile	2.1	FIO												
			Mortar and Grout	2.4	FIO												
			Mortar and Grout	2.4	FIO												
			SD-04 Samples														
			Tile	2.1	FIO												
			Marble Thresholds	2.5	FIO												
			SD-07 Certificates														
			Tile	2.1	FIO												
			Mortar and Grout	2.4	FIO												
		09510	SD-02 Shop Drawings														
			Approved Detail Drawings	1.3	FIO												
			SD-03 Product Data														
			Acoustical Ceiling Systems	1.2.1	FIO												

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		09510	SD-04 Samples														
			Acoustical Units	2.1	FIO												
			SD-06 Test Reports														
			Ceiling Attenuation Class and Test	2.5	FIO												
			SD-07 Certificates														
			Acoustical Units	2.1	FIO												
		09650	SD-03 Product Data														
			Resilient Flooring and Accessories	1.2.1	FIO												
			SD-04 Samples														
			Flooring	3.2	FIO												
			SD-06 Test Reports														
			Moisture Test	3.3	FIO												
		09900	SD-03 Product Data														
			Paint	2.1	FIO												
			Mixing and Thinning	3.3	FIO												
			Application	3.4	FIO												
			SD-04 Samples														
			Moisture-Curing Polyurethane	1.5	FIO												
			Paint	2.1	FIO												
			SD-06 Test Reports														
			Paint	2.1	FIO												
			SD-07 Certificates														
			Lead	2.1.3	FIO												
			Mildewcide and Insecticide	2.1.2	FIO												

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		09900	Volatile Organic Compound (VOC) Content	2.1.5	FIO												
		10161	SD-02 Shop Drawings														
			Shower Partition System	1.2	FIO												
			Shower Partition System	2.2	FIO												
			SD-03 Product Data														
			Shower Partition System	1.2	FIO												
			Shower Partition System	2.2	FIO												
			SD-04 Samples														
			Shower Partition System	1.2	FIO												
			Shower Partition System	2.2	FIO												
		10201	SD-02 Shop Drawings														
			Metal Wall Louvers	2.1	FIO												
			Metal Wall Louvers	3.1	FIO												
			SD-03 Product Data														
			Metal Wall Louvers	2.1	FIO												
			Metal Wall Louvers	3.1	FIO												
		10440	SD-03 Product Data														
			Installation	3.1	FIO												
			SD-04 Samples														
			Interior Signage	1.3	FIO												
		10505	SD-02 Shop Drawings														
			Solid plastic lockers	2.1	FIO												
			SD-03 Product Data														
			Solid plastic lockers	2.1	FIO												
		10800	SD-03 Product Data														

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		10800	Finishes	2.1.2	FIO												
			Accessory Items	2.2	FIO												
			SD-04 Samples														
			Finishes	2.1.2	FIO												
			Accessory Items	2.2	FIO												
		11551	SD-02 Shop Drawings														
			Pallet Storage Racks	1.3.1	FIO												
			Seismic Protection	1.3.1.2	FIO												
			Aisle Signs and Labels	2.3	FIO												
			SD-03 Product Data														
			Pallet Storage Racks	1.3.1	FIO												
			SD-07 Certificates														
			Pallet Storage Racks Certification	1.2.1	FIO												
		12490	SD-02 Shop Drawings														
			Approved Detail Drawings	3.1	FIO												
			SD-03 Product Data														
			Window Treatments	3.1	FIO												
			Hardware	1.3	FIO												
			SD-04 Samples														
			Window Treatments	3.1	FIO												
		13038	SD-02 Shop Drawings														
			Cold storage rooms	2.1	FIO												
			SD-03 Product Data														
			Cold storage rooms	2.1	FIO												
			SD-08 Manufacturer's Instructions														
			Cold storage rooms	2.1	FIO												

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		13038	SD-10 Operation and Maintenance Data														
			Cold storage rooms	2.1	G ED												
		13040	SD-02 Shop Drawings														
			Hydronic Floor Warming System	1.2	FIO												
			SD-03 Product Data														
			Spare Parts	1.4.1	FIO												
			SD-06 Test Reports														
			Test Reports	1.4.2	FIO												
			SD-08 Manufacturer's Instructions														
			Hydronic Floor Warming System	1.2	FIO												
			SD-10 Operation and Maintenance Data														
			Hydronic Floor Warming System	1.2	G ED												
		13080	SD-02 Shop Drawings														
			Bracing	3.1	FIO												
			Resilient Vibration Isolation Devices	3.4	FIO												
			Equipment Requirements	1.2.1	FIO												
			SD-03 Product Data														
			Bracing	3.1	FIO												
			Equipment Requirements	1.2.1	FIO												
		13280	SD-03 Product Data														
			Respiratory Protection Program	1.12	G RE												
			Cleanup and Disposal	3.11	G RE												
			Detailed Drawings	3.6.5.2	G RE												

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		13280	Detailed Drawings	3.9.2	G RE												
			Materials and Equipment		G RE												
			Qualifications	1.5	G RE												
			Training Program	1.11	G RE												
			Medical Requirements	1.10	G RE												
			Encapsulants	2.1	G RE												
			SD-06 Test Reports														
			Exposure Assessment and Air Monitoring	3.9	G RE												
			Local Exhaust Ventilation	1.20	G RE												
			Licenses, Permits and Notifications	1.14	G RE												
			SD-07 Certificates														
			Vacuum, Filtration and Ventilation Equipment		G RE												
		13281	SD-03 Product Data														
			Materials and Equipment	1.18	G RE												
			Expendable Supplies	1.19	G RE												
			Qualifications	1.5	G RE												
			SD-06 Test Reports														
			Licences, Permits, and Notifications	1.11	G RE												
			Accident Prevention Plan (APP)	1.7	G RE												
			Sampling and Analysis	1.13	G RE												
			Clearance Report	3.7	G RE												
		13286	SD-07 Certificates														

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		13286	Qualifications of CIH	1.8.1	G												
			Training Certification	1.8.1	G												
			PCB and Mercury-Containing Lamp Removal Work Plan	1.8.2	G												
			PCB and Mercury-Containing Lamp Disposal Plan	1.8.3	G												
			SD-11 Closeout Submittals														
			Transporter certification	3.5.2	G												
			Certification of Decontamination	3.2.4	G												
			Certificate of Disposal and/or recycling	3.5.2.1	FIO												
		13851	SD-02 Shop Drawings														
			Fire Alarm Reporting System	1.4.1	G RE												
			SD-03 Product Data														
			Storage Batteries	2.2	G RE												
			Special Tools and Spare Parts	2.7.3	FIO												
			Technical Data and Computer Software	1.5	G RE												
			Training	3.5	FIO												
			Testing	3.4	FIO												
			Voltage Drop	1.2.1	G RE												
			SD-06 Test Reports														
			Testing	3.4	FIO												
			SD-07 Certificates														
			Equipment	1.3.1	FIO												
			Equipment	1.3.6	FIO												

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		13851	Qualifications	1.3.7	G RE												
			SD-10 Operation and Maintenance Data														
			Technical Data and Computer Software	1.5	G RE												
		13930	SD-02 Shop Drawings														
			Sprinkler System Shop Drawings		G RE												
			As-Built Shop Drawings		FIO												
			SD-03 Product Data														
			Fire Protection Related Submittals	3.1	FIO												
			Fire Protection Related Submittals	3.1	FIO												
			Load Calculations for Sizing Sway Bracing	1.6.1	G RE												
			Components and Equipment Data		G RE												
			Hydraulic Calculations	1.7	G RE												
			Spare Parts	1.6.3	FIO												
			Preliminary Tests Procedures	1.6.3	G RE												
			Final Acceptance Test Procedures	1.6.3	G RE												
			On-site Training Schedule	1.6.3	G RE												
			Preliminary Tests	3.10	G RE												
			Final Acceptance Test	3.11	G RE												
			Fire Protection Specialist	1.8	G RE												
			Qualifications														
			Sprinkler System Installer	1.9	G RE												
			Qualifications														
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		13930	Preliminary Tests Report	1.6.4	G RE												
			Final Acceptance Test Report	1.6.4	G RE												
			SD-07 Certificates														
			Fire Protection Specialist Inspection	3.3	G RE												
			SD-10 Operation and Maintenance Data														
			Wet Pipe Sprinkler System	1.2	FIO												
		15070	SD-02 Shop Drawings														
			Contractor Designed Bracing	1.2.4	G ED												
			SD-03 Product Data														
			Coupling and Bracing	3.1	FIO												
			Equipment Requirements	1.3	FIO												
			Contractor Designed Bracing	1.2.4	G RE												
			SD-07 Certificates														
			Flexible Ball Joints	2.2	FIO												
		15080	SD-04 Samples														
			Thermal Insulation Materials	1.4.1	FIO												
		15400	SD-02 Shop Drawings														
			Plumbing System	3.7.1	FIO												
			Electrical Schematics	1.5.1	FIO												
			SD-03 Product Data														
			Plumbing Fixture Schedule	3.8	FIO												
			Vibration-Absorbing Features		FIO												
			Plumbing System	3.7.1	FIO												
			SD-06 Test Reports														

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		15400	Tests, Flushing and Disinfection	3.7	FIO												
			SD-07 Certificates														
			Materials and Equipment	1.5.2	FIO												
			Bolts	1.5.2	FIO												
			SD-10 Operation and Maintenance Data														
			Plumbing System	3.7.1	FIO												
		15652	SD-02 Shop Drawings														
			Refrigeration System	2.8	G ED												
			Drawings	1.4.2	FIO												
			Drawings	3.1.9	FIO												
			SD-03 Product Data														
			Refrigeration System	2.8	FIO												
			Framed Instructions	3.1.24	FIO												
			Qualifications		FIO												
			Verification of Dimensions	1.4.1	FIO												
			Tests	1.2.1	G ED												
			Tests	3.2	FIO												
			Demonstrations	3.4	G ED												
			Spare Parts Data	1.2.1	FIO												
			SD-07 Certificates														
			Refrigeration System	2.8	FIO												
			Service Organizations	1.2.2	FIO												
		15653	SD-02 Shop Drawings														
			Drawings	1.4.2	G ED												
			SD-03 Product Data														

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		15653	Air-Conditioning System	1.2.3	FIO												
			Spare Parts Data	1.2.2	FIO												
			Framed Instructions	1.2.2	FIO												
			Framed Instructions	3.1.3	FIO												
			SD-06 Test Reports														
			Tests	1.2.2	FIO												
			Tests	3.2	FIO												
			System Performance Tests		FIO												
			Inspections		FIO												
			SD-07 Certificates														
			Air-Conditioning System	1.2.3	FIO												
			Service Organizations	1.2.3	FIO												
			SD-10 Operation and Maintenance														
			Data														
			Operation	2.3	FIO												
			Operation	3.4	FIO												
			Maintenance Manuals	3.4	FIO												
		15895	SD-02 Shop Drawings														
			Drawings	1.4.1	FIO												
			Installation	3.1	FIO												
			SD-03 Product Data														
			Components and Equipment	2.1	FIO												
			Test Procedures		FIO												
			System Diagrams		G ED												
			Similar Services		FIO												
			Testing, Adjusting and Balancing	3.6	FIO												

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		15895	Field Training	3.8	FIO												
			SD-06 Test Reports														
			Performance Tests	3.7	FIO												
			SD-07 Certificates														
			Bolts		FIO												
			SD-10 Operation and Maintenance Data														
			Operating and Maintenance Instructions	3.8	FIO												
		15951	SD-02 Shop Drawings														
			HVAC and Refrigeraton Control System	3.1.1	FIO												
			SD-03 Product Data														
			Service Organizations		FIO												
			Equipment Compliance Booklet	1.6	FIO												
			Commissioning Procedures	3.5	FIO												
			Performance Verification Test Procedures	1.6	FIO												
			Training	3.7	FIO												
			SD-06 Test Reports														
			Commissioning Report	3.7.2	FIO												
			Performance Verification Test	3.6.3	FIO												
			SD-10 Operation and Maintenance Data														
			Operation Manual	1.5	FIO												
			Maintenance and Repair Manual	1.6	G ED												

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		15990	SD-02 Shop Drawings														
			TAB Schematic Drawings and Report Forms	3.3	FIO												
			SD-03 Product Data														
			TAB Related HVAC Submittals	3.2	FIO												
			TAB Procedures	3.5.1	G ED												
			Calibration	1.4	FIO												
			Systems Readiness Check	3.5.2	FIO												
			TAB Execution	3.5.1	G ED												
			TAB Verification	3.5.4	G ED												
			SD-06 Test Reports														
			Design Review Report	3.1	G ED												
			Systems Readiness Check	3.5.2	G ED												
			TAB Report	3.5.3	G ED												
			TAB Verification Report	3.5.4	G ED												
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			Ductwork Leak Testing	3.4	FIO												
			TAB Firm	1.5.1	G ED												
			TAB Specialist	1.5.2	G ED												
		15995	SD-03 Product Data														
			Commissioning Team	3.1	FIO												
			Test Procedures		FIO												
			Test Schedule		G ED												
			SD-06 Test Reports														
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		16360	SD-02 Shop Drawings														

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		16360	Unit Substation Drawings	1.5.1.1	G RE												
			SD-03 Product Data														
			Secondary Unit Substation	2.2	G RE												
			SD-06 Test Reports														
			Ground resistance test reports	1.5.2	G RE												
			acceptance checks and tests	3.5.1	G RE												
			SD-07 Certificates														
			Transformer losses	1.5.3	G RE												
			SD-09 Manufacturer's Field Reports														
			Switchgear design and production tests	2.4.2	G RE												
			design tests (dry-type)	2.4.4	G RE												
			routine and other tests (dry-type)	2.4.5	G RE												
			SD-10 Operation and Maintenance Data														
			Unit substations	1.6.1	G RE												
			Transformer (dry-type)	2.2.3	G RE												
			SD-11 Closeout Submittals														
			Equipment test schedule	2.4.1	G RE												
		16375	SD-02 Shop Drawings														
			Electrical Distribution System	3.9.3	G RE												
			As-Built Drawings		G RE												
			SD-03 Product Data														
			Fault Current Analysis		G RE												
			Protective Device		G RE												

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		16375	Nameplates	2.2	FIO												
			Material and Equipment	2.1	FIO												
			General Installation Requirements	3.1	FIO												
			SD-06 Test Reports														
			Factory Tests	2.13	FIO												
			Field Testing	3.9	FIO												
			Cable Installation	3.2.1.4	FIO												
			SD-07 Certificates														
			Material and Equipment	2.1	FIO												
			Cable Joints	3.3	FIO												
			Cable Installer Qualifications	1.3.1	FIO												
			SD-10 Operation and Maintenance Data														
			Electrical Distribution System	3.9.3	FIO												
		16415	SD-02 Shop Drawings														
			Emergency Power Supply (EPS)	2.20	G RE												
			Interior Electrical Equipment	1.3.1	G RE												
			SD-03 Product Data														
			Manufacturer's Catalog	1.3.2	FIO												
			Material, Equipment, and Fixture Lists	1.3.3	FIO												
			Installation Procedures	1.3.4	FIO												
			As-Built Drawings	1.2.6	FIO												
			As-Built Drawings	1.3.5	FIO												
			Onsite Tests	1.3.6	G RE												
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		16415	Factory Test Reports	1.3.7	G RE												
			Field Test Plan	1.3.8	G RE												
			Field Test Reports	1.3.9	G RE												
			Field Test Reports	3.18	G RE												
			SD-07 Certificates														
			Materials and Equipment	1.4	FIO												
		16528	SD-02 Shop Drawings														
			Lighting System	1.3.1	G RE												
			Detail Drawings	1.2.1	G RE												
			As-Built Drawings	1.2.1	FIO												
			SD-03 Product Data														
			Equipment and Materials	1.3.6	FIO												
			SD-06 Test Reports														
			Operating Test	3.7.1	G RE												
			SD-10 Operation and Maintenance Data														
			Lighting System	1.3.1	FIO												
		16710	SD-02 Shop Drawings														
			Premises Distribution System	1.7	G RE												
			Record Drawings	1.5.1	G RE												
			SD-03 Product Data														
			Record Keeping and Documentation	1.8	G RE												
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			Qualifications	1.4	G RE												
			Test Plan	1.5.2	G RE												

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SECTION 02220

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SECTION 02220

DEMOLITION

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.

ENGINEERING MANUALS (EM)

EM 385-1-1 (1996) U.S. Army Corps of Engineers Safety and Health Requirements Manual

1.2 GENERAL REQUIREMENTS

The work includes demolition, and removal of resulting rubbish and debris. Rubbish and debris shall be removed from Government property daily, unless otherwise directed, to avoid accumulation at the demolition site. Materials that cannot be removed daily shall be stored in areas specified by the Contracting Officer. In the interest of occupational safety and health, the work shall be performed in accordance with EM 385-1-1, Section 23, Demolition, and other applicable Sections. In the interest of conservation, salvage shall be pursued to the maximum extent possible; salvaged items and materials shall be disposed of as specified.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-08 Manufacturer's Instructions

Work Plan; G, RE.

1.4 WORK PLAN

The procedures proposed for the accomplishment of the work. The procedures shall provide for safe conduct of the work, including procedures and methods to provide necessary supports, lateral bracing and shoring when required, protection of property which is to remain undisturbed, coordination with other work in progress, and timely disconnection of utility services. The procedures shall include a detailed description of the methods and equipment to be used for each operation, and the sequence of operations in accordance with EM 385-1-1.

1.5 DUST CONTROL

The amount of dust resulting from demolition shall be controlled to prevent the spread of dust to occupied portions of the construction site and to avoid creation of a nuisance in the surrounding area. Use of water will not be permitted when it will result in, or create, hazardous or objectionable conditions such as flooding and pollution.

1.6 PROTECTION

1.6.1 Protection From the Weather

The interior of buildings to remain; materials and equipment shall be protected from the weather at all times.

1.6.2 Environmental Protection

The work shall comply with the requirements of Section 01430 ENVIRONMENT PROTECTION.

1.7 BURNING

The use of burning at the project site for the disposal of refuse and debris will not be permitted.

1.8 USE OF EXPLOSIVES

Use of explosives will not be permitted.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

3.1 EXISTING ITEMS TO BE REMOVED

All work shall be executed in an orderly and careful manner with due consideration for all items to remain. All work shall be as indicated and as required to complete the removal work. Removal shall be complete including supports and hangers. Fasteners shall be removed to the extent that the surface can be patched smooth to receive new work or match the adjacent surface.

3.1.1 Patching

Where removals leave holes and damaged surfaces exposed in the finished work, patch and repair these holes and damaged surfaces to match adjacent finished surfaces. Where new work is to be applied to existing surfaces, perform removals and patching in a manner to produce surfaces suitable for receiving new work. Finished surfaces of patched area shall be flush with the adjacent existing surface and shall match the existing adjacent surface as closely as possible as to texture and finish.

3.2 DISPOSITION OF MATERIAL

Title to material and equipment to be demolished, except for Government salvage items, is vested in the Contractor upon receipt of notice to proceed. The Government will not be responsible for the condition, loss or damage to such property after notice to proceed.

3.2.1 Salvageable Items and Material

Contractor shall salvage items and materials to the maximum extent possible.

3.2.1.1 Items Salvaged for the Government

Salvaged items to remain the property of the Government shall be removed in a manner to prevent damage, and packed or crated to protect the items from damage while in storage or during shipment. Items damaged during removal or storage shall be repaired or replaced to match the existing items. Salvaged items shall be properly identified and labeled. The following items reserved as property of the Government shall be delivered to the Logistic Support Contractor on Kwajalien Atoll:

a. From Vault 610, GE 4160/208 volt transformer, Serial GEM163392.

b. From Vault 701

1.Sorgel dry type 4160/400 volt transformer, Square D, factory No. 197572.

2.Power zone switch, Square D, with same factory No. 197572.

3.Crouse Hinds 200 Ampere Receptacle, Catalog No. AR80422.

4.Double throw safety switch, Square D, Catalog No. 82344.

3.2.2 Unsalvageable Material

Noncombustible and combustible material shall be disposed of off the project site as directed.

3.3 CLEAN UP

Debris shall be removed and transported in a manner that prevents spillage on streets or adjacent areas. Local regulations regarding hauling and disposal shall apply.

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DIVISION 07 - THERMAL & MOISTURE PROTECTION

SECTION 07225

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-- End of Section Table of Contents --

SECTION 07225

REFRIGERATED FLOOR INSULATION

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 C 552	(1991) Cellular Glass Block and Pipe Thermal Insulation
ASTM C 728	(1991) Perlite Thermal Insulation Board
ASTM C 984	(1984) Perlite Board and Rigid Cellular Polyurethane Composite Roof Insulation
ASTM C 1050	(1991) Rigid Cellular Polystyrene - Cellulosic Fiber Composite Roof Insulation
ASTM C 1289	(1995) Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
ASTM E 84	(1995; Rev. B) Surface Burning Characteristics of Building Materials

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Refrigerated Floor Insulation

1.2.1 Refrigerated Floor Insulation

Show complete description of the procedures for the installation of the insulation system indicating the type of materials, thicknesses, identity codes, sequence of laying insulation, special methods for cutting and fitting of insulation, and special precautions. Manufacturer's drawings based on field measurements may be submitted to supplement the information shown on the shop drawings. Indicate details and location of hydronic underfloor warming system in relation to floor insulation.

SD-03 Product Data

Refrigerated Floor Insulation

Submit manufacturer's catalog data for insulation, adhesive and vapor barrier membrane.

SD-04 Samples

Insulation

Vapor Barrier Membrane

D E L E T E

Samples shall be of sufficient size to show color ranges, and types, as applicable, of the material proposed to be used.

1.3 DELIVERY AND STORAGE**1.3.1 Delivery**

Deliver materials to the site in original sealed containers or packages bearing manufacturer's name and brand designation. Where materials are covered by a referenced specification, containers or packages shall bear specification number, type, and class as applicable. Deliver materials in sufficient quantity to allow continuity of work.

1.3.2 Storage and Handling

Protect materials from damage during construction period. Bundle insulation board by manufacturer's identity codes. Replace damaged material with new material. Protect roll materials against moisture absorption. Store roll materials on end on clean raised platforms in dry locations with adequate ventilation. Do not store roll materials in buildings under construction until concrete and mortar work is finished and dry. Tie covering securely to the pallets in such a way as to be completely weathertight and yet provide sufficient ventilation to prevent condensation.

PART 2 PRODUCTS**2.1 MATERIALS**

Conform to the respective specifications and standards and to requirements specified herein and materials shall not contain asbestos.

2.1.1 Insulation Types

Insulation using chlorofluorocarbon (CFC) to impart thermal resistance shall not be used.

- a. Expanded Perlite Board: ASTM C 728. Minimum 19 mm thick when both top and bottom surfaces will be in contact with adhesive.
- b. Polyisocyanurate Board: ASTM C 1289, Type I, foiled faced both sides or Type II, fibrous felt or glass mat membrane both sides,

except minimum compressive strength shall be 138 kPa.

- c. Composite Board: ASTM C 1289, Type III, perlite insulation board faced one side, fibrous felt or glass fiber mat membrane on other side, Type V, oriented strand board or waferboard on one side and fibrous felt or glass mat membrane or aluminum foil on the other; ASTM C 984, Polyisocyanurate-perlite; or ASTM C 1050, Polystyrene-wood fiberboard, Type III, Grade 1, Class A.
- d. Cellular Glass Block Insulation: ASTM C 552.
- e. Insulation Thickness: As necessary to provide a thermal resistance (RSI value) of 5.28 or more. Thickness shall be based on the "RSI" value for aged insulation.

2.1.2 Adhesive

Adhesive for insulation shall be a product listed in the UL Building Materials Directory or the FM Approval Guide for the type of floor insulation used in this project.

2.1.3 D E L E T E

DELETE

2.2.3 Vapor Barrier

Vapor barrier shall be polyethylene sheet, 6 mils thick each layer. Water vapor permeance of vapor barrier at 38 degrees C and 100% relative humidity shall not exceed 0.0000 grams per 645 square millimeter per 24 hours in a flat condition. Vapor barrier shall have a maximum flame spread coefficient of 15, fuel contribution of zero, and smoke development of 5, maximum when tested in accordance with ASTM E 84.

2.1.4 Sealant Tape

Manufactured from same material as the vapor barrier with special pressure sensitive adhesive. Tape shall provide the same strength and vapor permeance as the vapor barrier material.

PART 3 EXECUTION

3.1 CONDITION OF SURFACES

Ensure that the surfaces are rigid, dry, smooth, and free from cracks and holes before application of vapor barrier. Keep insulating materials dry before, during, and after installation. Coordinate the work with that of the hydronic underfloor warming system and other trades to assure that components which are to be secured or attached are installed.

3.2 INSTALLATION

3.2.1 Vapor Barrier

Provide beneath the entire concrete floor slab and floor insulation as indicated. Use the greatest widths and lengths practicable so as to eliminate joints wherever possible. Where joints are necessary, lap not less than 6 inches and seal with approved adhesive. **Torn, punctured, or**

damaged vapor barrier material shall be removed and replaced as directed, prior to the placing of concrete or floor insulation. Place concrete and floor insulation in such a manner as to preclude damage to the vapor barrier material.

3.2.2 Insulation Installation

Lay insulation over vapor barrier so that end joints of each course break with those of adjoining courses. When using multiple layers of insulation, joints of each succeeding layer shall be parallel and broken in both directions with respect to the layer below. All joints on the top surfaces shall be taped. Embed 150 mm wide glass fiber tape in adhesive to cover the joint extending 75 mm beyond each side of joints.

3.2.3 Adhesive Installation

Insulation shall be adhesive applied in accordance with the adhesive manufacturer's printed installation instructions.

3.3 PROTECTION OF APPLIED INSULATION

Storing, walking, wheeling, or trucking will not be permitted directly on insulation. Board or plank walkways, runways, and platforms shall be provided as necessary, to distribute weight.

3.4 CLEAN UP

Each day remove from the job site debris, scraps, containers, and other rubbish and trash resulting from the installation of the vapor barrier membrane and floor insulation.

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DIVISION 11 - EQUIPMENT

SECTION 11551

PALLET STORAGE RACKS

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SECTION 11551

PALLET STORAGE RACKS

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 MO15L (1991) Steel Construction Load and Resistance Factor Design

AMERICAN IRON AND STEEL INSTITUTE (AISI)

AISI Cold-Formed Spec (1996) Specification & Commentary for the Design of Cold-Formed Steel Structural Members (Part V of the Cold-Formed Steel Design Manual)

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A 36/A 36M (1996) Structural Steel

ASTM A 123/A 123M (1997; Rev A) Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

ASTM A 153/A 153M (1995) Zinc-Coating (Hot-Dip) on Iron and Steel Hardware

ASTM A 924/A 924M (1997; Rev A) General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process

AMERICAN WELDING SOCIETY (AWS)

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

FEDERAL STANDARDS (FED-STD)

FED-STD 595 (Rev. A) (Not. 9) Colors

MILITARY SPECIFICATIONS (MS)

MS MIL-R-61001 Rack Storage of Materials, Standard for

RACK MANUFACTURER'S INSTITUTE (RMI)

RMI Specification	Specification for the Design, Testing, and Utilization of Industrial Steel Storage Racks
RMI Manual	Manual of Safety Practices - A Code of Safety Practices for the Use of Industrial and Commercial Steel Storage Rack

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Pallet Storage Racks

Submit shop drawings along with catalog cuts, templates and erection and installation details as appropriate. Submittals shall indicate: quantity and layout of racks; dimensions; thickness, type, grade, and class of metals; connections, methods of assembly, and anchorage details for the rack type specified. Include a schedule listing manufacturer's name and part number for each rack component with component price, weight, gage, and dimensions.

Seismic Protection

Submittals shall indicate quantity and layout of racks, dimensions, thickness, type, grade, and class of metals, connections, methods of assembly, and anchorage details to the rack type specified.

Aisle Signs and Labels

Submit aisle signs and labels for pallet racks rackable storage systems. Submit the manufacturer's technical data and installation instructions for each type of sign required.

SD-03 Product Data

Pallet Storage Racks

Submit design calculations demonstrating that all components will withstand design gravity and seismic loadings specified.

SD-07 Certificates

Pallet Storage Racks Certification.

1.2.1 Pallet Storage Racks Certification

Submit a statement of certification by a licensed professional engineer registered in the state of component manufacture. Such certification shall relate to the overall design reflected by shop drawings and calculations as well as to the design, weight, gage dimensions and other characteristics of each numbered component piece part. The certification shall state that such designs and numbered component piece parts will fulfill the Government specified loading and other requirements. Additionally, the manufacturer

shall certify that all delivered rack components are those for which the registered professional engineer has provided certification.

1.3 DESIGN REQUIREMENTS

1.3.1 Design Criteria

Design pallet storage racks to meet the requirements of the "RMI Specification for the Design, Testing, and Utilization of Industrial Steel Storage Racks," and "RMI Manual of Safety Practices," except as supplemented herein.

1.3.1.1 Rack Type

Selective Pallet Rack, single entry.

1.3.1.2 Earthquake

Seismic Protection: Seismic Zone 1. Meet requirements of the Uniform Building Code to resist lateral seismic forces. Seismic loads shall not be transferred to building walls.

1.3.1.3 In-Rack Sprinklers

Coordinate with Section 13930 WET PIPE SPRINKLER SYSTEM, FIRE PROTECTION.

1.3.2 Storage Requirements

- a. Pallet Load Capacity - 1634 kg minimum
- b. Standard pallet size - 1015 mm by 5850 mm; maximum allowable load dimension with material overhang - 1090 mm by 1346 mm.
- c. Standard load beam length - 2743 mm for double opening pallet shelf and 1422 mm for single pallet opening shelf.
- d. Flue spacing between back to back racks shall be 300 mm. Provide minimum of two rack to rack ties.

1.4 DELIVERY AND STORAGE

Deliver, store, and handle manufactured items so that they will not be damaged or deformed.

PART 2 PRODUCTS

2.1 MATERIALS

2.1.1 Upright Frames

- a. Materials: Form from hot or cold rolled steel of structural quality conforming to the chemical and mechanical requirements of AISI Cold-Formed Spec or AISC M015L. Steel shall have a yield strength of not less than 310 MPa.
- b. Aisle-Side Post Minimum Section: The aisle-side post section shall be a minimum of 75 mm by 75 mm, open back, 2.5 mm cold

rolled steel section per AISI Cold-Formed Spec. This minimum shall be for forklift impact resistance. Rear post shall be designed to meet specified load requirements.

- c. **Beam Adjustment:** Post shall provide for beam adjustment on not greater than 75 mm centers.
- d. **Foot Plates:** Preferred foot plate placement shall be front edge flush with front of column protector and extending into the storage bays the minimum required for installation of anchor bolts. Except as noted below the preferred anchor bolt location at the rear the aisle side upright frame post. If these preferences conflict with requirements of the seismic design the seismic design requirements shall prevail. All foot plates shall be punched for a minimum of two 16 mm diameter anchor bolts. Minimum foot plate size shall be 600 mm square and thickness of 3 mm.
- e. **Frame Size:** **Frames shall be 1067 mm deep by 4876 and 5487 mm in height.**
- f. **Frame Cross Bracing:** Cross bracing shall meet or exceed RMI Specification minimum requirements. Welds shall conform to AWS D1.1.

2.1.2 Load Beams

- a. **Materials:** Form from hot or cold rolled steel of structural quality conforming to the chemical and mechanical requirements of AISI Cold-Formed Spec or AISC AISC M015L. Steel shall have a yield strength of not less than 310 MPa.
- b. **Length:** **Load beams of 2286 mm shall be provided.**
- c. **Capacity and Deflection:** Minimum gravity loading capacity of 1364 kg per pallet position shall be provided. Deflection at design load shall not exceed 13 mm. If required beam gravity load capacity shall be increase to meet this specification.
- d. **Type:** Beams shall include a 40 mm + 3 mm deep step.
- e. **Beam to Post Connector Safety Locking Device:** A drop-in type beam connection locking device meeting RMI Specification and that cannot be removed by hand. Drop in bend pins will not be accepted.

2.1.3 Row Spacers

- a. **Minimum Number:** A minimum of three row spacers shall be provided for placement between back-to-back rows of racks.
- b. **Length:** Row spacers shall be 300 mm in length.
- c. **Attachment Method:** Row spacers shall be attached to upright frames in the same manner as load beams.

2.1.4 Anchor Bolts

Each upright frame post shall be anchored to the floor with a minimum of one 16 mm diameter anchor bolt (two per frame), except at row ends where

there shall be a minimum of two for each front and rear posts or 4 per upright frame. The anchor bolt minimum shall provide for shear loads imposed by forklift contact and shall be increased in diameter as required. Anchor bolt length, type, installation depth and nut tightness shall be recommended by the manufacturer.

2.1.5 Row End Protectors

- a. Construction: Steel channels (C150 x 3.7) approximately 2324 mm in length. Row end protectors shall be provided and installed on upright pairs at all row ends.
- b. Attachment: Protectors shall be bolted to each of four upright frame posts with two 9 mm diameter fasteners.

2.1.6 Shims

Shims shall match foot plate size to minimize the collection of debris under the foot plate and shall be punched for anchor bolts to match the foot plate pattern. Slotted shims will not be accepted. Provide a variety of thicknesses so that no more than 5 shims are ever required per foot plate.

2.1.7 Sprinkler Sprinkler System Barrier Guard

Fabricated of steel shapes conforming to ASTM A 36/A 36M, locations and sizes as indicated.

2.1.8 Sway Braces

Fabricated of steel shapes conforming to ASTM A 36/A 36M.

2.2 FINISHES

2.2.1 Galvanizing

All ferrous metal shall be thoroughly cleaned and hot-dipped galvanized, after fabrication.

Galvanizing: ASTM A 123/A 123M, ASTM A 153/A 153M and ASTM A 924/A 924M, as applicable.

2.2.2 Factory Finishes

Factory paint in accordance with the manufacturer's standard regular practice, including primer and topcoat. The final finish shall be approximate color No. 26134, gray of FED-STD 595. The finished coating shall be smooth and free of streaks, drops, sags, pinholes, checks, cracks, peeling, blisters, foreign material, and area of no film.

2.2.3 Safety Stripes

Each front upright post shall be field painted safety yellow per color No. 13538 of FED-STD 595 and striped with black safety stripes.

2.3 AISLE SIGNS AND LABELS

Provide aisle signs and labels for the pallet rack storage systems. Design

signage scheme where even bays are on one side and odd the other of an aisle, each pallet width gets its own "bay" address, each 1800 mm wide rackable shelf gets its own "bay" address, and a serpentine aisle numbering scheme were all odd numbered aisles run north and west and odd run south and east, or some other consistent alternative. The aisle at the low bay number end of an aisle shall have green colored lettering (go from here) and those at the high bay number end orange (OK to enter but you're going upstream in the addressing). Label height shall be 50 mm high, characters formed to Helvetica style for Building Code, Aisle, Bay, and Level. Also include bar codes for Building Code, Aisle, Bay, and Level in labels. Aisle signs shall be 450 mm square, characters formed to Helvetica style.

PART 3 EXECUTION

3.1 ERECTION

Erect racks in accordance with approved shop drawings and RMI Specification and RMI Manual recommendations. Install racks with a maximum inclination from the vertical of 3 mm in 3 meters of height. Install shelf beams to the indicated height above finish floor with a dimensional tolerance of plus or minus 3 mm.

3.2 SWAY BRACES

Provide sway braces for pallet storage racks. Braces shall consist of steel angles, rods, bars or tubes, and secured with not less than 12 mm bolts. Sufficient braces shall be provided to resist a horizontal force equal to 113 percent of the designed loads without exceeding safe working stress of bracing components.

3.3 ACCEPTANCE TESTING

Acceptance testing may be performed at the option of the Government. Testing will be conducted in accordance with the provisions of subparagraph 4.6 of MS MIL-R-61001, modified to accommodate the loads specified herein. Modifications will be calculated on direct proportion basis.

3.4 TOUCH-UP

All scratches, abrasions, and other damage to shop painted surfaces shall be cleaned and painted to match the shop-applied finish.

-- End of Section --