

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE 1 OF 1 PAGES
2. AMENDMENT/MODIFICATION NO. R0004	3. EFFECTIVE DATE 03/31/04	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY US ARMY ENGINEER DISTRICT, AK CEPOA-CT (W911KB) PO BOX 6898 ELMENDORF AFB, AK 99506-6898 MARGIE JACKSON (907)753-2836	CODE J4P0000	7. ADMINISTERED BY (If other than Item 6) CODE US ARMY ENGINEER DISTRICT, AK CEPOA-CO-SAO PO BOX 6898 ELMENDORF AFB, ALASKA 99506-6898 DACA85	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(X)	9A. AMENDMENT OF SOLICITATION NO. DACA85-03-B-0006
CODE 089C4 FACILITY CODE		X	9B. DATED (SEE ITEM 11) 03/01/04
			10A. MODIFICATION OF CONTRACT/ORDER NO.
			10B. DATED (SEE ITEM 13)

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.
Offer 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 0 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 ACKNOWLEDGEMENT 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)

PROJECT TITLE AND LOCATION: Construct to Add/Alter Ops Ofc's Hangar 3 and 15, Elmendorf AFB, Alaska

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

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

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

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

BID OPENING DATE IS 09 APR 04, 2:00 PM, local time, at the US Army Corps of Engineers-Alaska District, 2204 Third St, Elmendorf AFB, Alaska

NOTICE TO OFFERORS: PLEASE MARK OUTSIDE OF ENVELOPE IN WHICH BID IS SUBMITTED TO SHOW AMENDMENTS RECEIVED. YOU ARE REQUIRED TO ACKNOWLEDGE RECEIPT OF THIS AMENDMENT ON THE REVERSE SIDE OF STANDARD FORM 1442.

IMPORTANT NOTE: Keep in mind that the base is still under tight security measures and access to non-DOD personnel is limited or restricted and requires extra time to process through the Boniface Gate.

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

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

CONTINUATION SHEET

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a. The following drawings are substituted for the superseded drawings. The identifier "AM #4" appears before and after the revised drawings listed in section 00800, SCR-5.

ELM265 A0.01 CODE ANALYSIS SHEET
A0.02 DEMOLITION PLAN
A1.07 WALL SECTIONS
A1.08 DOOR SCHEDULES, TYPES & DETAILS
A1.09 REFLECTED CEILING PLAN
M1.04 SECOND FLOOR HEATING AND VENTILATION PLAN
E1.02 EXISTING/DEMOLITION ELECTRICAL PLAN
E1.03 NEW LIGHTING PLAN

ELM266 A1.00 CODE ANALYSIS
A1.02 1ST FLOOR PLAN

b. The following revised documents are substituted for the superseded documents. The identifier "AM #4" appears before and after new and revised material, except as noted below.

PROJECT TABLE OF CONTENTS
SECTION 00800

TECHNICAL SPECIFICATIONS (including submittal registers):

SECTION 08210 WOOD DOORS (including submittal register)

PART 2 PRODUCTS - Paragraph 2.2.2.1 Natural Finished Wood Veneer Doors

NOTE: Revisions within the following documents do not contain the above referenced identifiers.

SUBMITTAL REGISTERS

c. The following sections (including submittal registers) are deleted.

NONE

d. The following sections are added.

SECTION 05400 COLD-FORMED STEEL FRAMING (not including submittal register)

SECTION 09100 METAL SUPPORT ASSEMBLIES (including submittal registers)

CONTINUATION SHEET

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e. NOTICE TO BIDDERS: PLEASE MARK OUTSIDE OF ENVELOPE IN WHICH BID IS SUBMITTED TO SHOW AMENDMENTS RECEIVED. YOU ARE REQUIRED TO ACKNOWLEDGE RECEIPT OF THIS AMENDMENT ON YOUR COMPANY/FIRM COVER LETTER.

SUBJECT: Solicitation Number DACA85-03-B-0006, Operation Vaults, Hangers 3, and 15 (Questions were e-mail on March 9&10, 2004. They are numbered in accordance with the way they were received. Where numbers skip answers these questions have been answered)

Questions for Clarification:

All these questions are concerning **hangar 3** ops vault received 9 March 2004

Question 4. Will onsite borrow pits be available? **Response: No. Fill material must be hauled on base.**

Question 5. Can unusable excavation be disposed of on base? **Response: No. Excess material must be taken off base.**

Pre-Proposal Meeting & Site Visit was on 19 March 2004 at 1230 at the Education Center, Elmendorf AFB, Alaska, for FY04 Operation Vaults, Hangers 3 & 15. The following people were in attendance:

Name	E-Mail Address	Organization/Role	Telephone
Margie J. Jackson	margie.j.jackson@poa02.usace.army.mil	USACE	753-2836
Mark N. Wallace	mark.n.Wallace@poa02.usace.army.mil	USACE	753-5660
Monica J. Velasco	monica.j.velasco@poa02.usace.army.mil	USACE	753-5688
Jesse L. Gobeli	jesse.l.gobeli@poa02.usace.army.mil	USACE	753-5611
Bob Kuczek	bobk@ami-abska.com	Alaska Mechanical	349-8502
Bill Mendenhall	bill@kamaninc.com	Koman	569-9130
Dean Hottmann	dean@wsiak.com	Wolverine	373-6572
Donna Freitas	dfreitas@eagleelectricllc.com	Eagle Electric	344-7121
Steve Wisdorf	stevewisdorf@acsarraska.com	Electric Inc	277-1431
Todd Elmore	todde@absolute.env	AESI/Hazmat	346-4490
Dan Strucher	dan@arrowheadenviro.com	Arrowhead Environmental	376-8848
Ron Desgranges	desgranges@bnciak.com	Bethel Services Inc	522-6311
Ben Maresh	benm@cityelectricinc.com	City Electric Inc	272-4531
John Anderson	john@alaskaabatment.com	AK Abatement	563-0088
Tom Peterson	tpeterson@invitserives.com	Invit Services	563-2732
Phil Young	phil@kcci.us	Kanagiq	258-5879
Jim McGowan	jimm@kcci.us	Kanagiq	258-5879
Samuel Pelant	spelant@ccialaska.com	CCI	258-5755
Charles Brown	cbrown.tmi@gcc.net	Tatitlek Management	278-4000
Troy Hill	statewide@alaska.net	Statewide Electric	260-7611
Richard L. Olds	Richard.olds@tikigar.com	AGLAQ Constr Ops MVGD	365-6122
Dean Howatt		Howatt Painting	345-2727
Brooke Adkinson	badkinson@olgoonik.com	Kuk Construction	562-8708
Roger Graff	graffcontracting@alaska.net	Graff Contracting	243-7295
Ray Nass		Pinnacle Construction	522-0040
Dave Smith	dave1311@hotmail.com	Chadux	272-9886
Matt Hartman	mhartman1@gci.net	Pinnacle Construction	522-0040
Dan Stark	starkce@aic.net	Stark-Lewis LLC	279-3405
Keith L. Stark	starkle@ak.net	Stark-Lewis LLC	279-3405

SECTION 00800
SPECIAL CONTRACT REQUIREMENTS

SCR-1 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984) (FAR 52.211-10):

The Contractor will be required to (a) commence work under this contract within 10 calendar days after the date the Contractor receives the Notice to Proceed (NTP), (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than 01 December 2004. The completion date is based on the assumption that the successful bidder will receive the Notice to Proceed by 05 April 2004. The completion date will be extended by the number of calendar days after the above date that the Contractor receives the Notice to Proceed, except to the extent that the delay of the issuance of the Notice to Proceed results from the failure of the Contractor to execute the contract and give the required performance and payment of bonds within the time specified in the bid. The time stated for completion shall include the final clean up of the premises of Hangars 3 and 15.

SCR-2 NOT USED

SCR-3 LIQUIDATED DAMAGES-CONSTRUCTION (SEP 2000) (FAR 52.211-12):

(a) The contractor must complete the required Hangar 15 exterior works (i.e., clearing staging area, removing equipment and other associated exterior works) by 01 September 2004. If the Contractor fails to complete the work that they can perform during the period from 15 May 2004 to 01 September 2004 as stipulated in SCR 1, the Contractor shall pay liquidated damages to the Government in the amount of \$480.00 for each calendar day until the work is completed or accepted.

(b) If the Contractor fails to complete the entire work within the time specified in the contract, the Contractor shall pay liquidated damages to the Government in the amount of \$1,627.00 for each calendar day of delay until the work is completed or accepted.

(c) Hangar 3: If the Contractor fails to complete all connections including testing and certification to the new security panel within 72 hours after cutting the 2nd floor door for penetration or any other penetration to the existing vault as specified in the contract, the Contractor shall pay liquidated damages to the Government in the amount of \$75.00 per hour of delay until work is completed or accepted.

(d) If the government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Termination clause.

SCR-4 NOT USED

SCR-5 CONTRACT DRAWINGS AND SPECIFICATIONS (Aug 2000) (DFARS 252.236-7001):

(a) The Government will provide the Contractor, without charge, one set of contract drawings and specifications, except publications incorporated into the technical provisions by reference, in electronic or paper media as chosen by the Contracting Officer.

(b) The Contractor shall --

- (1) Check all the drawings furnished immediately upon receipt;
 - (2) Compare all drawings and verify the figures before laying out the work;
 - (3) Promptly notify the Contracting Officer of any discrepancies;
 - (4) Be responsible for any errors that might have been avoided by complying with this paragraph (b); and
 - (5) Reproduce and print contract drawings and specifications as needed.
- (c) In general -
- (1) Large-scale drawings shall govern small-scale drawings; and
 - (2) The Contractor shall follow figures marked on drawings in preference to scale measurements.
- (d) Omissions from the drawings or specifications or the mis-description of details of work that are manifestly necessary to carry out the intent of the drawings and specifications, or that are customarily performed, shall not relieve the Contractor from performing such omitted or mis-described details of the work. The Contractor shall perform such details as if fully and correctly set forth and described in the drawings and specifications.
- (e) The work shall conform to the specifications and the contract drawings identified on the following index of drawings:

DRAWINGS FOR ELM265 (OPERATIONS VAULT, HANGAR 3)

Drawing No.	Sheet No.	Title	Rev. No.	Date
		<u>GENERAL</u>		
NONE	G1.01	COVER SHEET	NONE	20 FEBRUARY 2004
"	G1.02	INDEX SHEET	"	"
AF-16-06-4298	LV-1	LOCATION VICINITY MAP	"	"
		<u>CIVIL</u>		
AF 39-01-149	C1.01	GENERAL SITE & UTILITIES	"	"
"	C1.02	DEMOLITION	"	"
"	C1.03	EXCAVATION	"	"
"	C1.04	PAVEMENT & WATER DETAILS	"	"
"	C1.05	MISCELLANEOUS DETAILS	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
AF 39-01-149	C1.06	FENCE DETAILS	NONE	20 FEBRUARY 2004
		<u>HAZARDOUS MATERIALS</u>		
"	H1.01	HAZARDOUS MATERIALS	"	"
		<u>ARCHITECTURAL</u>		
AM#4...				
"	A0.01	CODE ANALYSIS SHEET	4	26 MARCH 2004
"	A0.02	DEMOLITION PLAN	"	"
"	A1.01	FIRST FLOOR PLAN	"	"
"	A1.02	SECOND FLOOR PLAN	"	"
				...AM#4
"	A1.03	ELEVATIONS	NONE	20 FEBRUARY 2004
"	A1.04	SECTIONS	"	"
"	A1.05	DETAILS	"	"
"	A1.06	ROOF PLAN & DETAILS	"	"
AM#4...				
"	A1.07	WALL SECTIONS	4	26 MARCH 2004"
"	A1.08	DOOR SCHEDULES, TYPES & DETAILS	"	"
"	A1.09	REFLECTED CEILING PLAN	"	"
				...AM#4
"	A2.01	STAIR DETAILS	NONE	20 FEBRUARY 2004
"	A2.02	ROOM FINISH SCHEDULES & COLUMN DETAILS	"	"
"	A2.03	INTERIOR ELEVATIONS & WALL TYPES	"	"
"	A2.04	COVERED ENTRY SECTIONS & DETAILS	"	"
"	A2.05	MISC. DETAILS	"	"
		<u>STRUCTURAL</u>		
"	S1.01	GENERAL NOTES & ABBREVIATIONS	"	"
"	S1.02	FLOOR LAYOUT & SLAB PLAN & DETAILS	"	"
		<u>MECHANICAL</u>		
"	M1.01	MECHANICAL LEGEND AND SCHEDULE	"	"
"	M1.02	MECHANICAL DEMOLITION PLAN	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
AF 39-01-149	M1.03	FIRST FLOOR HEATING AND VENTILATION PLAN	NONE	20 FEBRUARY 2004
AM#4...				
"	<u>M1.04</u>	<u>SECOND FLOOR HEATING AND VENTILATION PLAN</u>	<u>4</u>	<u>26 MARCH 2004</u>
				...AM#4
"	M1.05	MECHANICAL SECTIONS, ROOF PLAN, & CONTROLS	NONE	20 FEBRUARY 2004
"	M1.06	HYDRONIC PIPING ISOMETRIC DIAGRAM	"	"
"	M1.07	MECHANICAL DETAILS	"	"
		<u>ELECTRICAL</u>		
"	E1.01	LEGENDS, ABBREVIATION	"	"
AM#4...				
"	<u>E1.02</u>	<u>EXISTING/DEMOLITION ELECTRICAL PLAN</u>	<u>4</u>	<u>26 MARCH 2004</u>
"	<u>E1.03</u>	<u>NEW LIGHTING PLAN</u>	"	"
				...AM#4
"	E1.04	POWER PLAN	NONE	20 FEBRUARY 2004
"	E1.05	POWER ONE LINE DIAGRAM	"	"
"	E1.06	SECURITY SYSTEM PLAN	"	"
"	E1.07	COMMUNICATIONS PLAN	"	"
"	E1.08	COMMUNICATIONS DETAILS	"	"
"	E1.09	ELECTRICAL/COMM DETAILS	"	"
"	E1.10	COMMUNICATIONS DETAILS	"	"
"	E1.11	PANEL SCHEDULE	"	"
"	E1.12	LIGHTING SCHEDULE	"	"
"	E1.13	COMMUNICATIONS DETAILS	"	"
		<u>FIRE PROTECTION</u>		
"	F1.01	FIRE ALARM PLAN	"	"
		<u>EXHIBIT</u>		
NONE	EXH 1	EXHIBIT 1	NONE	NONE
NONE	EXH 2	EXHIBIT 2	NONE	NONE
"	EXH 3	EXHIBIT 3	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
"	EXH 4	EXHIBIT 4	"	"

DRAWINGS FOR ELM266 (OPERATIONS VAULT, HANGAR 15)

Drawing No.	Sheet No.	Title	Rev. No.	Date
		<u>GENERAL</u>		
NONE	G1.01	COVER SHEET	NONE	20 FEBRUARY 2004
NONE	G1.02	INDEX SHEET	"	"
		<u>LOCATION AND VICINITY MAP</u>		
AF 16-06-4299	LV-1	LOCATION VICINITY MAP	"	"
		<u>CIVIL</u>		
AF 39-01-150	C1.01	GENERAL SITE & UTILITIES PLAN	"	"
"	C1.02	DEMOLITION PLAN & EXCAVATION SECTION	"	"
"	C1.03	DETAILS	"	"
		<u>HAZARDOUS MATERIALS</u>		
"	H1.01	HAZARDOUS MATERIALS	"	"
		<u>ARCHITECTURAL</u>		
AM#4...				
"	A1.00	CODE ANALYSIS	4	26 MARCH 2004
				...AM#4
"	A1.01	DEMOLITION PLAN	"	"
AM#4...				
"	A1.02	1ST FLOOR PLAN	4	26 MARCH 2004
				...AM#4
AF 39-01-150	A1.03	BUILDING ELEVATION	NONE	20 FEBRUARY 2004
"	A1.04	BUILDING SECTIONS	"	"
"	A1.05	ROOF PLAN	"	"
"	A1.06	DETAILS	"	"
"	A1.07	WALL SECTIONS	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
AF 39-01-150	A1.08	DOOR SCHEDULE AND DETAILS	NONE	20 FEBRUARY 2004
"	A1.09	DEMO/EXISTING REFLECTED CEILING PLAN	"	"
"	A1.10	WINDOW DETAILS	"	"
"	A1.11	INTERIOR ELEVATIONS	"	"
"	A1.12	PLAN DETAILS AND WALL TYPES	"	"
"	A1.13	REFLECTED CEILING PLAN	"	"
"	A1.14	FINISH SCHEDULE	"	"
		<u>STRUCTURAL</u>		
"	S1.01	GENERAL NOTES & ABBREVIATIONS	"	"
"	S1.02	FLOOR LAYOUT & SLAB PLAN & DETAILS	"	"
"	S1.03	DETAILS	"	"
		<u>MECHANICAL</u>		
"	M1.01	MECHANICAL LEGEND AND SCHEDULE	"	"
"	M1.02	EXISTING MECHANICAL AND DEMOLITION PLANS	"	"
"	M1.03	NEW HVAC PLAN	"	"
"	M1.04	NEW PIPING PLAN	"	"
"	M1.05	MECHANICAL ROOF PLAN	"	"
"	M1.06	MECHANICAL SECTIONS	"	"
"	M1.07	MECHANICAL DETAILS	"	"
		<u>ELECTRICAL</u>		
"	E1.01	LEGENDS, ABBREVIATION	"	"
"	E1.02	EXISTING/DEMOLITION ELECTRICAL PLAN	"	"
"	E1.03	NEW LIGHTING PLAN	"	"
"	E1.04	NEW POWER PLAN	"	"
"	E1.05	POWER ONE LINE DIAGRAM	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
AF 39-01-150	E1.06	NEW DATA/TELEPHONE PLAN	NONE	20 FEBRUARY 2004
"	E1.07	LIGHTING AND PANEL SCHEDULE	"	"
"	E1.08	SECURITY SYSTEM PLAN	"	"
"	E1.09	COMMUNICATIONS DETAILS	"	"
"	E1.10	DATA/TELEPHONE DETAILS	"	"
<u>FIRE PROTECTION</u>				
"	F1.01	FIRE ALARM PLAN	"	"
<u>EXHIBIT</u>				
NONE	EXH 1	EXHIBIT 1	NONE	NONE
"	EXH 2	EXHIBIT 2	"	"
"	EXH 3	EXHIBIT 3	"	"

SCR-6 BRAND NAME OR EQUAL (Aug 1999) (FAR 52.211-6) :

(a) If an item in this solicitation is identified as "brand name or equal," the purchase description reflects the characteristics and level of quality that will satisfy the Government's needs. The salient physical, functional, or performance characteristics that "equal" products must meet are specified in the solicitation.

(b) To be considered for award, offers of "equal" products, including "equal" products of the brand name manufacturer, must-

(1) Meet the salient physical, functional, or performance characteristic specified in this solicitation;

(2) Clearly identify the item by-

- (i) Brand name, if any; and
- (ii) Make or model number;

(3) Include descriptive literature such as illustrations, drawings, or a clear reference to previously furnished descriptive data or information available to the Contracting Officer; and

(4) Clearly describe any modifications the offeror plans to make in a product to make it conform to the solicitation requirements. Mark any descriptive material to clearly show the modifications.

(c) The Contracting Officer will evaluate "equal" products on the basis of information furnished by the offeror or identified in the offer and reasonably available to the Contracting Officer. The Contracting Officer is not responsible for locating or obtaining any information not identified in the offer.

(d) Unless the offeror clearly indicates in its offer that the product being offered is an "equal" product, the offeror shall provide the brand name product referenced in the solicitation.

SCR-7 CERTIFICATES OF COMPLIANCE:

Any certificates required for demonstrating proof of compliance of materials with specification requirements shall be executed in 3 copies. Each certificate shall be signed by an official authorized to certify in behalf of the manufacturing company and shall contain the name and address of the Contractor, the project name and location, and the quantity and date or dates of shipment or delivery to which the certificates apply. Copies of laboratory test reports submitted with certificates shall contain the name and address of the testing laboratory and the date or dates of the tests to which the report applies. Certification shall not be construed as relieving the Contractor from furnishing satisfactory material, if, after tests are performed on selected samples, the material is found not to meet the specific requirements.

SCR-8 SUBMITTALS (ER 415-1-10, 30 May 1995):

Within 30 days after receipt of Notice to Proceed, the Contractor shall complete and submit to the Contracting Officer, in triplicate, submittal register ENG Form 4288 listing all submittals and dates. In addition to those items listed on ENG Form 4288, the Contractor shall furnish submittals for any deviation from the plans or specifications. The scheduled need dates must be recorded on the document for each item for control purposes. In preparing the document, adequate time (minimum of 30 days) shall be allowed for review and, only when stipulated, approval and possible resubmittal. Scheduling shall be coordinated with the approved progress schedule. The Contractor's Quality Control representative shall review the listing at least every 30 days and take appropriate action to maintain an effective system. Copies of updated or corrected listing shall be submitted to the Contracting Officer at least every 60 days in the quantity specified. Payment will not be made for any material or equipment which does not comply with contract requirements.

Section 01330 includes an ENG Form 4288 listing technical items the Contractor shall submit to the Contracting Officer, as indicated in the contract requirements.

SCR-9 IDENTIFICATION OF GOVERNMENT-FURNISHED PROPERTY (APR 1984) (FAR 52.245-3):

(a) The Government will furnish to the Contractor the property identified in the Schedule to be incorporated or installed into the work or used in performing the contract. The listed property will be furnished to the contractor at the place specified in the contract Schedule or f.o.b. truck at the project site. The Contractor is required to accept delivery, pay any demurrage and unload and transport the property to the job site at its own expense. When the property is delivered, the Contractor shall verify its quantity and condition and acknowledge receipt in writing to the Contracting Officer. The Contractor shall also report in writing to the Contracting Officer within 24 hours of delivery any damage to or shortage of the property as received. All such property shall be installed or incorporated into the work at the expense of the Contractor, unless otherwise indicated in this contract.

(b) Each item of property to be furnished under this clause shall be identified in the Schedule by quantity, item, and description.

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Location</u>	<u>Available Data</u>
1	Core by Best	19	Elmendorf AFB	During Construction
2	CD-X09 Combination Deadbolt Device by Kaba Mas	1	Elmendorf AFB	During Construction

SCR-10 ELMENDORF AFB PHYSICAL DATA (APR 1984): Data and information furnished or referred to below are furnished for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

a. The indications of physical conditions on the drawings and in the specifications are the result of site investigation.

b. Location: Elmendorf AFB is located on the north edge of Anchorage, Alaska.

c. Transportation:

(1) Water: Anchorage is a port of call for scheduled and unscheduled commercial and military deep and shallow draft vessels in the Alaska trade.

(2) Air: Scheduled and charter commercial airline service is available from airports in Anchorage.

(3) Land: Anchorage is connected to the primary and secondary state highway system and is accessible from the lower 48 states via the Alaska Highway.

(4) Railroad: The Alaska Railroad offers freight service from the 48 contiguous states and Canada via rail barge and trainship through Whittier, and from Seward, to Anchorage and Fairbanks. In addition to the freight service, scheduled passenger service and express service between Anchorage and Fairbanks, and passenger service between Anchorage and Whittier are also available. Fairbanks (including Eielson AFB and Ft. Wainwright) is the northern terminus, and Seward and Whittier are the southern terminals of the Alaska Railroad.

d. Communications: The Contractor shall make all arrangements for required communication service directly with the Alaska Communications Systems (ACS) located at 10491 Necrason Avenue, Elmendorf AFB. The Government does not guarantee the adequacy or efficiency of the service or the number of telephones that can be assigned to the Contractor.

e. Weather Data: A Climatological Summary for Elmendorf AFB is attached to the end of this section.

SCR-11 AVAILABILITY AND USE OF UTILITY SERVICES (APR 1984) (FAR 52.236-14):

(a) The Government shall make all reasonably required amounts of utilities available to the Contractor from existing outlets and supplies, as specified in the contract. Unless otherwise provided in the contract, the amount of each utility service consumed shall be charged to or paid for by

the Contractor at prevailing rates charged to the Government or, where the utility is produced by the Government, at reasonable rates determined by the Contracting Officer. The Contractor shall carefully conserve any utilities furnished without charge.

(b) The Contractor, at its expense and in a workmanlike manner satisfactory to the Contracting Officer, shall install and maintain all necessary temporary connections and distribution lines, and all meters required to measure the amount of each utility used for the purpose of determining charges. Before final acceptance of the work by the Government, the Contractor shall remove all the temporary connections, distribution lines, meters, and associated paraphernalia.

SCR-12 IDENTIFICATION OF EMPLOYEES AND MILITARY REGULATIONS:

(a) The Contractor shall be responsible for compliance with all regulations and orders of the Commanding Officer of the Military Installation, respecting identification of employees, movements on installation, parking, truck entry, and all other military regulations which may affect the work.

(b) The work under this contract is to be performed at an operating Military Installation with consequent restrictions on entry and movement of non-military personnel and equipment.

SCR-13 INSURANCE - WORK ON A GOVERNMENT INSTALLATION (JAN 1997) (FAR 52.228-5):

(a) The Contractor shall, at its own expense, provide and maintain during the entire performance of this contract, at least the following kinds and minimum amounts of insurance:

(1) Workman's Compensation and Employers' Liability Insurance: \$100,000.00.

(2) General Liability Insurance: A Bodily Injury, Comprehensive policy which provides \$500,000.00 per occurrence.

(3) Automobile Liability Insurance: A comprehensive policy which provides \$200,000.00 per person and \$500,000.00 per occurrence for bodily injury and \$20,000.00 per occurrence for property damage, covering the operation of its automobiles used in connection with the performance of the contract.

(4) Aircraft Public and Passenger Liability Insurance: Where aircraft are used in connection with the performance of the contract; \$200,000.00 per person, \$500,000.00 per occurrence for bodily injury, other than passenger liability, and \$200,000.00 per occurrence for property damage; \$200,000.00 per person for passenger liability bodily injury aggregate equal to the total number of seats or number of passengers, whichever is greater.

(5) Vessel Collision Liability and Protection and Indemnity Liability Insurance: Where vessels are used in connection with the performance of the contract.

(b) Before commencing the work under this contract, the Contractor shall notify the Contracting Officer in writing that the required insurance has been obtained. The policies evidencing required insurance shall contain

an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective (1) for such period as the laws of the State in which this contract is to be performed prescribe, or (2) until 30 days after the insurer or the Contractor gives written notice to the Contracting Officer, whichever period is longer.

(c) The Contractor shall insert the substance of this clause, including this paragraph (c), in subcontracts under this contract that require work on a Government installation and shall require subcontractors to provide and maintain the insurance required above. The Contractor shall maintain a copy of all subcontractors' proofs of required insurance, and shall make copies available to the Contracting Officer upon request.

SCR-14 SPECIAL SAFETY REQUIREMENTS:

The Safety and Health Requirements Manual referenced in paragraph Accident Prevention of the Contract Clauses is amended as indicated below. Copies of the manual can be ordered from the Superintendent of Documents, Government Printing Office, Washington DC, phone 202-512-1800, FAX 202-512-2250.

a. Paragraph 01.A: Add new paragraph 01.A.12 Safety Engineer.

(1) Full-time, on-site, safety coverage by Contractors will be required when the contract work is specifically designated by the Contracting Officer as high hazard or requires full-time safety personnel due to size or complexity.

(2) If full-time safety personnel are required, the following conditions shall be met:

(a) The Contractor shall employ at the project site, to cover all hours of work, at least one Safety and Occupational Health person to manage the Contractor's accident prevention program. Duties which are not germane to the safety program shall not be assigned to the Safety and Health person(s). The principal safety person shall report to and work directly for the Contractor's on-site top manager, higher level official, or corporate safety office. The Safety and Health person(s) shall have the authority to take immediate steps to correct unsafe or unhealthful conditions. The presence of a Safety and Health person will not abrogate safety responsibilities of other personnel.

(b) Qualifications for Safety and Health person(s):

(1) Shall have a degree in engineering or safety in at least a four year program from an accredited school; or

(2) Shall have legal registration as a Professional Engineer or a Certified Safety Professional and, in addition, shall have been engaged in safety and occupational health for at least one (1) year of experience, no time being credited to this one (1) year unless at least fifty (50) percent of the time was devoted to safety and occupational health; or

(3) Shall have a degree other than that specified in (1) above and, in addition, shall have been engaged in safety and occupational health for at least three (3) years, no time being credited to these three (3) years unless at least fifty (50) percent of the time each year was devoted to safety and occupational health; or

(4) In lieu of a degree, shall have been engaged in safety and occupational health for at least five (5) years, no time being credited to these five (5) years unless at least fifty (50) percent of the time each year was devoted to safety and occupational health;

(5) First aid work is not creditable experience.

(c) The name and qualifications of the nominated safety person(s) shall be furnished to the Contracting Officer for acceptability and a functional description of duties shall be provided prior to the pre-work conference.

b. Paragraph 05.A.01: Add new paragraph 05.A.01 d.

d. Employers shall make reasonable efforts to accommodate employees with religious beliefs that may conflict with PPE requirements. However, when reasonable efforts to accommodate the employee's religious beliefs do not provide the necessary safe working environment (without PPE), then the employer shall require the employee to use the appropriate PPE or the employee will not be allowed to work in the area where he/she will be exposed to a hazard requiring such protection.

c. Paragraph 16.C: Add new paragraphs 16.C.21 and 16.C.22.

16.C.21. During personnel handling operations, load and boom hoist drum brakes, swing brakes, and locking devices such as pawls or dogs shall be engaged when the occupied platform is in a stationary working position.

16.C.22. During personnel handling operations, the load hoist drum shall have a system or device on the power train other than the load hoist brake, which regulates the lowering rate of speed of the hoist mechanism (controlled load lowering). Free fall is prohibited.

d. Paragraph 21.A.15: Add new paragraph 21.A.15 d.

d. Standard guardrails shall be installed on all intermediate floors and roofs, including flat roof areas more than 6 feet above adjacent areas, during construction or rehabilitation of the buildings. The use of safety nets and safety belts with life lines may be substituted on pitched roofs.

SCR-15 AIRFIELD SAFETY PRECAUTIONS (DEC 1991) (DFARS 252.236-7005):

(a) Definitions.

As used in this clause--

(1) "Landing Areas" means--

(i) The primary surfaces, comprising the surface of the runway, runway shoulders, and lateral safety zones. The length of each primary surface is the same as the runway length. The width of each primary surface is 2,000 feet (1,000 feet on each side of the runway centerline);

(ii) The "clear zone" beyond the ends of each runway, i.e., the extension of the primary surface for a distance of 1,000 feet beyond each end of each runway;

(iii) All taxiways, plus the lateral clearance zones along each side for the length of the taxiways (the outer edge of each lateral

clearance zone is laterally 250 feet from the far or opposite edge of the taxiway, e.g., a 75-foot-wide taxiway would have a combined width of taxiway and lateral clearance zones of 425 feet); and

(iv) All aircraft parking aprons, plus the area 125 feet in width extending beyond each edge all around the aprons.

(2) "Safety precaution areas" means those portions of approach-departure clearance zones and transitional zones where placement of objects incident to contract performance might result in vertical projections at or above the approach-departure clearance, or the transitional surface.

(i) The "approach-departure clearance surface" is an extension of the primary surface and the clear zone at each end of each runway, for a distance of 50,000 feet, first along an inclined (glide angle) and then along a horizontal plane, both flaring symmetrically about the runway centerline extended.

(A) The inclined plane (glide angle) begins in the clear zone 200 feet past the end of the runway (and primary surface) at the same elevation as the end of the runway. It continues upward at a slope of 50:1 (1 foot vertically for each 50 feet horizontally) to an elevation of 500 feet above the established airfield elevation. At that point the plane becomes horizontal, continuing at that same uniform elevation to a point 50,000 feet longitudinally from the beginning of the inclined plane (glide angle) and ending there.

(B) The width of the surface at the beginning of the inclined plane (glide angle) is the same as the width of the clear zone. It then flares uniformly, reaching the maximum width of 16,000 feet at the end.

(ii) The "approach-departure clearance zone" is the ground area under the approach-departure clearance surface.

(iii) The "transitional surface" is a sideways extension of all primary surfaces, clear zones, and approach-departure clearance surfaces along the inclined planes.

(A) The inclined plane in each case begins at the edge of the surface.

(B) The slope of the inclined plane is 7:1 (1 foot vertically for each 7 feet horizontally). It continues to the point of intersection with the--

(1) Inner horizontal surface (which is the horizontal plane 150 feet above the established airfield elevation); or

(2) Outer horizontal surface (which is the horizontal plane 500 feet above the established airfield elevation), whichever is applicable.

(iv) The "transitional zone" is the ground area under the transitional surface. (It adjoins the primary surface, clear zone and approach-departure clearance zone.)

(b) General.

(1) The Contractor shall comply with the requirements of this clause while--

- (i) Operating all ground equipment (mobile or stationary);
- (ii) Placing all materials; and
- (iii) Performing all work, upon and around all airfields.

(2) The requirements of this clause are in addition to any other safety requirements of this contract.

(c) The Contractor shall--

(1) Report to the Contracting Officer before initiating any work;

(2) Notify the Contracting Officer of proposed changes to locations and operations;

(3) Not permit either its equipment or personnel to use any runway for purposes other than aircraft operation without permission of the Contracting Officer, unless the runway is--

- (i) Closed by order of the Contracting Officer; and
- (ii) Marked as provided in paragraph (d) (2) of this

clause;

(4) Keep all paved surfaces, such as runways, taxiways, and hardstands, clean at all times and, specifically, free from small stones which might damage aircraft propellers or jet aircraft;

(5) Operate mobile equipment according to the safety provisions of this clause, while actually performing work on the airfield. At all other times, the Contractor shall remove all mobile equipment to locations--

- (i) Approved by the Contracting Officer;
- (ii) At a distance of at least 750 feet from the runway centerline, plus any additional distance; and

(iii) Necessary to ensure compliance with the other provisions of this clause; and

(6) Not open a trench unless material is on hand and ready for placing in the trench. As soon as practicable after material has been placed and work approved, the Contractor shall backfill and compact trenches as required by the contract. Meanwhile, all hazardous conditions shall be marked and lighted in accordance with the other provisions of this clause.

(d) Landing areas.

The Contractor shall--

(1) Place nothing upon the landing areas without the authorization of the Contracting Officer;

(2) Outline those landing areas hazardous to aircraft, using (unless otherwise authorized by the Contracting Officer) red flags by day, and electric, battery-operated low-intensity red flasher lights by night;

(3) Obtain, at an airfield where flying is controlled, additional permission from the control tower operator every time before entering any landing area, unless the landing area is marked as hazardous in accordance with paragraph (d) (2) of this clause;

(4) Identify all vehicles it operates in landing areas by means of flag on a staff attached to, and flying above, the vehicle. The flag shall be 3 feet square, and consist of a checkered pattern of international orange and white squares of 1 foot on each side (except that the flag may vary up to ten percent from each of these dimensions);

(5) Mark all other equipment and materials in the landing areas, using the same marking devices as in paragraph (d) (2) of this clause; and

(6) Perform work so as to leave that portion of the landing area which is available to aircraft free from hazards, holes, piles of material, and projecting shoulders that might damage an airplane tire.

(e) Safety precaution areas.

The Contractor shall--

(1) Place nothing upon the safety precaution areas without authorization of the Contracting Officer;

(2) Mark all equipment and materials in safety precaution areas, using (unless otherwise authorized by the Contracting Officer) red flags by day, and electric, battery-operated, low-intensity red flasher lights by night; and

(3) Provide all objects placed in safety precaution areas with a red light or red lantern at night, if the objects project above the approach-departure clearance surface or above the transitional surface.

SCR-16 LAYOUT OF WORK (APR 1984) (FAR 52.236-17):

The Contractor shall lay out its work from Government established base lines and bench marks indicated on the drawings, and shall be responsible for all measurements in connection with the layout. The Contractor shall furnish, at its own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the work. The Contractor shall be responsible for executing the work to the lines and grades that may be established or indicated by the Contracting Officer. The Contractor shall also be responsible for maintaining and preserving all stakes and other marks established by the Contracting Officer until authorized to remove them. If such marks are destroyed by the Contractor or through its negligence before their removal is authorized, the Contracting Officer may replace them and deduct the expense of the replacement from any amounts due or to become due the Contractor.

SCR-17 THRU SCR-19 NOT USED

SCR-20 CONTRACTOR-PREPARED NETWORK ANALYSIS SYSTEM (NAS) (1990 MAR HQ USACE) (ER 1-1-11 JUN 1995):

1. The progress chart to be prepared by the Contractor pursuant to the Contract Clause entitled "Schedule for Construction Contracts" shall consist of a network analysis system (NAS) as described below. The scheduling of construction is the responsibility of the Contractor and Contractor management personnel shall actively participate in development of the network logic diagram so that intended sequences and procedures are clearly understood. The Contractor shall provide the NAS in either Arrow Diagram Method (ADM) or Precedence (PDM) format. The network diagram required at the initial schedule submission shall depict the order and interdependence of activities and the method by which the work is to be accomplished. Conditions of submittal are:

a. The diagram shall show a continuous activity flow from left to right. The activity or event numbers, description, duration, and value shall be shown on the diagram.

b. Dates shall be shown on the diagram for start of the project, any milestones required by the contract, and contract completion.

c. The critical path shall be clearly identified.

d. Submittal, review, procurement, fabrication, delivery, installation, start-up, and testing of special or long lead-time materials and equipment shall be included in the NAS diagram.

e. Government and other agency activities shall be shown. These include but are not limited to: Notice to Proceed, submittals/approvals, inspections, and utility tie in for phasing requirements.

2. A preliminary network diagram, defining the Contractor's planned operations for the first 60 days shall be provided within 10 calendar days after Notice to Proceed is acknowledged. The approved preliminary schedule shall be used for payment not to exceed 60 days after Notice to Proceed.

3. The initial NAS shall be submitted within 40 calendar days after Notice to Proceed. It shall provide (1) a reasonable sequence of activities which represent work through the entire project and (2) a reasonable level of activity detail. The schedule interval shall extend from Notice to Proceed through the contract duration specified in "COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK" to contract completion date. Completion of the last activity in the schedule shall be constrained by the contract completion date such that if the projected finish of the last activity falls after the contract completion, then the float calculation shall reflect negative float. Interim milestone dates specified shall be so constrained also. Progress payments will be withheld until the Contractor submits an approvable schedule.

4. The Contractor shall submit a reproducible and five copies of the network diagram at the initial submittal and three copies of the specified reports at the initial and every monthly update throughout the life of the project. The format of the reports shall contain: Activity Number(s), Activity Description, Original Duration, Remaining Duration, Early Start Date, Late Start Date, Early Finish Date, Late Finish Date, and Total Float. Precedence schedule reports shall include and display preceding and succeeding activities. Cost and/or Earned Value reports shall contain Estimated Earned Value, Percent Complete (based on cost), and Earnings to Date. Report formats are as follows:

a. Logic Report: This report shall list all activities sorted according to activity number. Activities shall be printed in ascending order of activity number. Any standard report which lists activities including restraints in this manner is acceptable.

b. Criticality Report: This report shall list all activities sorted in ascending order of total float. Activities which have equal values of total float shall be listed in ascending order of Early Starts.

c. Cost or Earned Value Report: This report shall compile the Contractor's total earned value on the project from the Notice to Proceed until the most recent monthly progress meeting based on agreed progress between the Contractor and the Contracting Officer. Provided that the Contractor has submitted a complete schedule update, this report shall serve as the basis for determining Contractor payment. Activities shall be grouped by bid item and then sorted by activity number(s). This report shall subtotal all activities in a bid item and provide a bid item percent complete and then total all bid items to provide a total project percent complete.

d. Other sorted reports or curves may be required as project requirements dictate; however, the total number should be limited.

5. A monthly meeting shall be conducted on site attended by the Contractor's project manager and appropriate Contracting Officer's representatives. During this meeting the Contractor shall describe, on an activity by activity basis, all proposed revisions and adjustments to the NAS required to reflect the current status of the project. The Contracting Officer's representative shall approve activity progress, proposed revisions and adjustments, and the use of any optional calculations. The following shall be addressed:

a. The actual start and actual finish dates for all activities in progress or completed as appropriate.

b. The estimated remaining duration for each activity in progress. Progress calculations must be based on remaining duration for each activity and be in an approved calculation mode.

c. The earned value for each activity started but not completed. Payment shall be based on cost of completed activities plus cost to date of in-progress activities.

d. All logic changes pertaining to change orders on which a Notice to Proceed has been issued, Contractor proposed changes in activity sequence or durations, and corrections to schedule logic to avoid out of sequence progress.

6. Following the monthly progress meeting, a complete update of the NAS based on the approved progress, revisions, and adjustments agreed upon at the meeting shall be computed and submitted not later than 10 working days after the meeting. This update shall be subject to approval of the accurate entry of information agreed upon at the meeting. Actual starts and finishes, remaining duration, or percent complete shall not be automatically updated by default dates contained in the many CPM scheduling software systems, except that early start for an activity which could start prior to the update but has no actual start shall default to the data date of the update. Activities which have posted progress without predecessor activities being completed shall be allowed only on a case by case approval of the Contracting Officer's representative who may require logic changes to correct all such out of sequence progress.

7. A narrative report shall be provided with each update of the NAS. This report shall include (1) a description of activities and progress along the four most critical paths, (2) a description of current and anticipated problem areas or delaying factors and their impact, and (3) an explanation of the corrective actions taken. Only modifications that have been authorized and approved by the Contracting Officer shall be included in the schedule submission. The narrative report shall specifically reference, on an activity by activity basis, all changes made since the previous period and relate each change to documented, approved schedule changes. This report, along with the progress update above, shall provide the basis for the Contractor's progress payment request and the Contractor shall be entitled to progress payments determined from the currently approved NAS update. If the Contractor fails or refuses to furnish the information and NAS data which, in the sole judgement of the Contracting Officer, is necessary for verifying the Contractor's progress, the Contractor shall be deemed not to have provided a progress payment estimate and progress payment will not be made.

8. The Contractor shall prepare proposed NAS revisions for all contract changes and submit them to the Contracting Officer's representative. These shall include a narrative listing the affected activities, a statement of the expected overall impact of the change proposed, and a sub-network of the affected diagram area. When agreed upon by the Contracting Officer's representative, the change logic and durations shall be utilized in analysis of the overall project and the appropriate impact of the change determined for inclusion of time impact for a modification. When Notice to Proceed with changes must be issued prior to settlement of price and/or time, the Contractor shall submit the same revisions for concurrence by the Contracting Officer's representative prior to inclusion in the NAS. If the Contractor fails to submit or include such revisions within 30 days of the Notice to Proceed, the Contracting Officer's representative will furnish to the Contractor suggested logic and/or revised durations to be entered in the NAS until the Contractor submits revisions, and final changes and impact have been negotiated. If the Contractor has any objections to the data furnished by the Contracting Officer, it shall advise the Contracting Officer promptly of its objections and written counterplan; however, it shall continue to use the revisions by the Contracting Officer until such time as alternate data is approved. If the Contractor fails to submit its alternative plan within 20 days after the date such suggested revisions were furnished by the Contracting Officer, the Contractor will be deemed to have concurred with the Contracting Officer's suggested logic/duration time changes. The changes then will be the basis for equitable adjustment for performance of the work.

9. In the event the Contractor requests an extension of the contract completion date for any other contractual reason, it shall furnish such justification as the Contracting Officer may deem necessary for a determination of the Contractor's right to an extension of time under the provisions of the contract. In such event, the schedule revisions must clearly display that the Contractor has used in full all available float time for the work involved with the request. Actual delays that are found to be caused by the Contractor's own actions or lack of action, and which result in the extension of the projected contract completion date shall not be a cause for extension of the contract completion date. The Contracting Officer may find cause to extend the contract completion date under the contract in the absence of a request by the Contractor when, in the Contracting Officer's judgement, it is equitable.

10. Float available in the schedule at any time shall not be considered as for exclusive use by either the Contractor or the Government. Extensions of

time for performance of work required under Contract Clauses entitled "CHANGES", "DIFFERING SITE CONDITIONS", "DEFAULT (FIXED-PRICE CONSTRUCTION)", or "SUSPENSION OF WORK" will be granted only to the extent that equitable time adjustments for affected activities exceed the total float along their paths.

SCR-21 NOT USED

SCR-22 SALVAGE MATERIALS AND EQUIPMENT (JAN 1965):

The Contractor shall maintain adequate property control records for all materials or equipment specified to be salvaged. These records may be in accordance with the Contractor's system of property control, if approved by the property administrator. The Contractor shall be responsible for the adequate storage and protection of all salvaged materials and equipment and shall replace, at no cost to the Government, all salvage materials and equipment which are broken or damaged during salvage operations as the result of its negligence, or while in its care.

SCR-23 THRU SCR-24 NOT USED

SCR-25 COMMUNICATION SECURITY:

All communications with DOD organizations are subject to COMSEC review. Contractor personnel shall be aware that telecommunications networks are continually subject to intercept by unfriendly intelligence organizations. The DOD has authorized the military departments to conduct COMSEC monitoring and recording of telephone calls originating from or terminating at DOD organizations. Therefore, civilian Contractor personnel are advised that any time they place a call to or receive a call from Alaska District offices or Resident Engineer offices located on military installations, they are subject to COMSEC procedures. The Contractor will assume the responsibility for ensuring wide and frequent dissemination of the above information to all employees dealing with official DOD information.

SCR-26 THRU SCR-28 NOT USED

SCR-29 EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE (1999 JUNE HQ USACE) (EFARS 52.231-5000):

(a) This statement shall become operative only for negotiated contracts where cost or pricing data is requested, and for modifications to sealed bid or negotiated contracts where cost or pricing is requested. This clause does not apply to terminations. See 52.231-5001, Basis for settlement of proposals, and FAR Part 49.

(b) Allowable cost for construction and equipment in sound workable condition owned or controlled and furnished by a Contractor or subcontractor at any tier shall be based on actual cost data for each piece of equipment or groups of similar serial and series for which the Government can determine both ownership and operating costs from the Contractor's accounting records. When both ownership and operating costs cannot be determined for any piece of equipment or groups of similar serial or series equipment from the Contractor's accounting records, costs for that equipment shall be based upon the applicable provisions of EP 1110-1-8, Construction Equipment Ownership and Operating Expense Schedule, Region IX. Working conditions shall be considered to be average for determining equipment rates using the schedule unless specified otherwise by the Contracting Officer. For equipment not included in the schedule, rates for comparable pieces of

equipment may be used or a rate may be developed using the formula provided in the schedule. For forward pricing, the schedule in effect at the time of negotiations shall apply. For retroactive pricing, the schedule in effect at the time the work was performed shall apply. (Individual copies of the regional schedules are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Any schedule can be ordered by telephoning (202) 512-1800. The cost is \$33.00 each (Vol. 9 is stock no. 008-022-00292-8) or is obtained from this website:

[http://www.usace.army.mil/inet/usace-docs/eng-pamphlets/ep1110-1-8\(vol9\)/toc.htm](http://www.usace.army.mil/inet/usace-docs/eng-pamphlets/ep1110-1-8(vol9)/toc.htm)

(c) Equipment rental costs are allowable, subject to the provisions of FAR 31.105(d)(ii) and FAR 31.205-36. Rates for equipment rented from an organization under common control, lease-purchase arrangements, and sale-leaseback arrangements, will be determined using the schedule, except that actual rates will be used for equipment leased from an organization under common control that has an established practice of leasing the same or similar equipment to unaffiliated lessees.

(d) When actual equipment costs are proposed and the total amount of the pricing action exceeds the small purchase threshold, the Contracting Officer shall request the Contractor to submit either certified cost or pricing data, or partial/limited data, as appropriate. The data shall be submitted on Standard Form 1411, Contract Pricing Proposal Cover Sheet.

SCR-30 THRU SCR-32 NOT USED

SCR-33 PAYMENT FOR MATERIALS DELIVERED OFF-SITE (1995 MAR HQ USACE) (EFARS 52.232-5000):

(a) Pursuant to FAR clause 52.232-5, Payments Under Fixed-Price Construction Contracts, materials delivered to the Contractor at locations other than the site of work may be taken into consideration in making payments if included in payment estimates and if all the conditions of the Contract Clauses are fulfilled. Payment for items delivered to locations other than the work site will be limited to: (1) materials required by the Technical Specifications; or (2) materials that have been fabricated to the point where they are identifiable to an item of work required under this contract.

(b) Such payment will be made only after receipt of paid or receipted invoices or invoices with cancelled check showing title to the items in the prime Contractor and including the value of materials and labor incorporated into the item. In addition to petroleum products, payment for materials delivered off-site is limited to the following items:

Building materials such as doors and windows, lumber, gypsum board, carpet and other finish materials, paving and masonry products, structural steel, roofing materials, paint, insulation, cabinets, appliances, and prefabricated panels.

Mechanical equipment and materials including piping; heating air conditioning and ventilation equipment; ductwork, tanks, air compressors, and pumps.

Electrical equipment and materials including wire, conduit, lighting fixtures, controls and alarms, panels, and generator sets.

SCR-34 THRU SCR-35 NOT USED

SCR-36 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER (ER 415-1-15, 31 Oct 1989):

1. This provision specifies the procedure for determination of time extensions for unusually severe weather in accordance with the Contract Clause entitled "DEFAULT (FIXED PRICE CONSTRUCTION)". In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

a. The weather experienced at the project site during the contract period must be found to be unusually severe; that is, more severe than the adverse weather anticipated for the project location during any given month.

b. The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

2. The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the base line for monthly weather time evaluations. The Contractor's progress schedule must reflect these anticipated adverse weather delays in all weather dependent activities.

Monthly Anticipated Adverse Weather Delay Work Days Based on a 5-Day Work Week

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
22	20	14	0	0	0	4	3	4	1	20	22

3. Upon acknowledgement of the Notice to Proceed and continuing throughout the contract, the Contractor shall record on the daily CQC report, the occurrence of adverse weather and the resultant impact to normally scheduled work. Actual adverse weather delays days must prevent work on critical activities for 50 percent or more of the Contractor's scheduled workday. The number of actual adverse weather days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day in each month, and be recorded as full days. If the number of actual adverse weather days exceeds the number of days anticipated in Paragraph 2, above, the Contracting Officer will convert any qualifying delays to calendar days, giving full consideration for equivalent fair weather workdays, and issue a modification in accordance with the Contract Clause entitled "DEFAULT (FIXED-PRICE CONSTRUCTION)".

SCR-37 NOT USED

SCR-38 YEAR 2000 COMPLIANCE (OCT 1997) (FAR 39.106):

In accordance with FAR 39.106, the Contractor shall ensure that with respect to any design, construction, goods, or services under this contract as well as any subsequent task/delivery orders issued under this contract (if applicable), all information technology contained therein shall be Year 2000 compliant. Specifically, the Contractor shall:

- (1) Perform, maintain, and provide an inventory of all major components to

include structures, equipment, items, parts, and furnishings under this contract and each task/delivery order which may be affected by the Year 2000 compliance requirement.

(2) Indicate whether each component is currently Year 2000 compliant or requires an upgrade for compliance prior to Government acceptance.

SCR-39 TRU SCR-44 NOT USED

SCR-45 SAFETY AND HEALTH REQUIREMENTS MANUAL, EM 385-1-1, U.S. ARMY CORPS OF ENGINEERS:

EM 385-1-1 and its changes are available at: <http://www.hq.usace.army.mil> (at the HQ homepage, select Safety and Occupational Health).

The Contractor shall be responsible for complying with the current edition and all changes posted on the web (see web address above) as of the effective date of this solicitation and shall comply with the version in effect on the contract award date. This EM 385-1-1 shall remain in effect throughout the life of the contract.

SCR-46 THRU SCR-111 NOT USED

SCR-112 NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY FOR CONSTRUCTION (FEB 1999) (FAR 52.222-23):

(a) The offeror's attention is called to the Equal Opportunity clause and the Affirmative Action Compliance Requirements for Construction clause of this solicitation.

(b) The goals for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Goals for Minority Participation

Goals for Female Participation

8.7 (Anchorage, AK)

6.9 (Alaska)

15.1 (Locations outside city of Anchorage)

These goals are applicable to all the Contractor's construction work performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, the Contractor shall apply the goals established for the geographical area where the work is actually performed. Goals are published periodically in the Federal Register in notice form, and these notices may be obtained from any Office of Federal Contract Compliance Programs office.

(c) The Contractor's compliance with Executive Order 11246, as amended, and the regulations in 41 CFR 60-4 shall be based on

(1) its implementation of the Equal Opportunity clause,

(2) specific affirmative action obligations required by the clause entitled "Affirmative Action Compliance Requirements for Construction," and

(3) its efforts to meet the goals.

The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade. The Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor, or from project to project, for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, Executive Order 11246, as amended, and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total work hours performed.

(d) The Contractor shall provide written notification to the Deputy Assistant Secretary for Federal Contract Compliance, U.S. Department of Labor, within 10 working days following award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the:

- (1) Name, address, and telephone number of the subcontractor;
- (2) Employer's identification number of the subcontractor;
- (3) Estimated dollar amount of the subcontract;
- (4) Estimated starting and completion dates of the subcontract;

and

(5) Geographical area in which the subcontract is to be performed.

(e) As used in this Notice, and in any contract resulting from this solicitation, the "covered area" is Alaska.

SCR-113 THRU SCR-114 NOT USED

ATTACHMENT: CLIMATOLOGICAL SUMMARY

CLIMATOLOGICAL SUMMARY

ELMENDORF (Period of record exceeds 25 years)

MEANS AND EXTREMES FOR PERIOD OF RECORD

Temperature	Mean Annual	35.1°	
	Highest Recorded	86°	
	Lowest Recorded	-43°	
	Maximum Freezing Index	3003° Days (1950-51)	
	Maximum Thawing Index	4040° 1958	
Precipitation	Mean Annual	16.3"	
	Mean Annual Snowfall	69.5"	
	Maximum Monthly	6.25" Sep 1961	
	Maximum Monthly Mean	2.61" Sep	
	Maximum Rainfall During 24 hr Period	1.67"	
	Maximum Snowfall During 24 hr Period	14.6" Nov 1956	
	Maximum Monthly Snowfall	40.1" Feb 1955	
Wind	Mean Hourly Speed	4.6 mph	
	Prevailing Direction	North	
	Maximum Velocity	115 mph April 1945	
	Direction Maximum Velocity	NE	
Annual Mean Number of Days	Sunrise to Sunset	Clear	73
		Partly Cloudy	60
		Cloudy	232
	Precipitation 0.01 inch or more		109
	Snow, Sleet, or Hail 1.0 inch or more		45
	Heavy Fog		7
	Thunderstorms		Less than 1 per year
	Max Temp	IV 70°	17
		III 32°	104
	Min Temp	III 32°	199
II Zero		41	

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SECTION 05400

AM #4...COLD-FORMED STEEL FRAMING...AM #4

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 the basic designation only.

AMERICAN IRON AND STEEL INSTITUTE (AISI)

AISI SG-971-Spec (1996) Specification and Commentary for the Design of Cold-Formed Steel Structural Members and Commentary; includes SG-2000-1 Supp 1 to 1996 Spec, dated 2000

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A 123/A 123M (2001) Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

ASTM A 153/A 153M (2001a) Zinc Coating (Hot-Dip) on Iron and Steel Hardware

ASTM A 653/A 653M (2000) Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

ASTM B 633 (1985; R 1998) Electrodeposited Coatings of Zinc on Iron and Steel

ASTM C 955 (2000a) Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases

AMERICAN WELDING SOCIETY (AWS)

AWS D1.3 (1998) Structural Welding Code - Sheet Steel

SOCIETY OF AUTOMOTIVE ENGINEERS INTERNATIONAL (SAE)

SAE J78 (1998) Steel Self Drilling Tapping Screws

1.2 DELIVERY, HANDLING AND STORAGE

Materials shall be delivered and handled preventing bending or other damage, and avoiding contact with soil or other contaminating materials. Finish of the framing members shall be maintained at all times, using

an approved high zinc dust content, galvanizing repair paint whenever necessary to prevent the formation of rust.

PART 2 PRODUCTS

2.1 STEEL STUDS, TRACKS, BRACING, BRIDGING, AND ACCESSORIES

Framing components shall comply with ASTM C 955 and the following:

- a. Material shall be corrosion-resistant steel complying with ASTM A 653/A 653M, Grade 33 or higher, having a minimum yield of 33,000 psi and a G 60 minimum zinc coating.
- b. Minimum uncoated steel thickness (design thickness times 0.95):
 - (1). Studs and Tracks: 0.0428 inch.
 - (2). Bracing and bridging: Thickness as shown on the drawings.
 - (3). Accessories: Standard thickness as provided by the manufacturer.
- c. Stud and Track web depth: 3-5/8 inches.
- d. Stud flange width: 1-3/8 inches.

2.2 MARKINGS

Studs and track shall have product markings on the web of the section. The markings shall be repeated throughout the length of the member at a maximum spacing of 4 feet on center and shall be legible and easily read. The product marking shall include the following:

- a. Manufacturer's identification.
- b. Minimum delivered uncoated steel thickness.
- c. Protective coating designator.
- d. Minimum yield strength.

2.3 CONNECTIONS

Screws for steel-to-steel connections shall be self-drilling tapping in compliance with SAE J78 of the type, size, and location as shown on the drawings. Electroplated screws shall have a Type II coating in accordance with ASTM B 633. Screws, bolts, and anchors shall be hot-dipped galvanized in accordance with ASTM A 123/A 123M or ASTM A 153/A 153M as appropriate. Screws bolts, and anchors shall be hot dipped galvanized in accordance with ASTM A 123/A 123Mor ASTM A 153/A 153M as appropriate.

PART 3 EXECUTION

3.1 Delivery, Handling and Storage

a. Materials shall be delivered and handled in a manner to avoid bending or other damage and to avoid contact with the soil or other contaminating materials.

b. Finish of the framing members shall be maintained at all times, using an approved high zinc dust content galvanizing repair paint whenever necessary to prevent the formation of rust.

3.2 CONNECTIONS

3.2.1 Welds

All welding shall be performed in accordance with AWS D1.3, as modified by AISI SG-971-Spec. All welders, welding operations, and welding procedures shall be qualified according to AWS D1.3. All welds shall be cleaned and coated with rust inhibitive galvanizing paint.

3.2.2 Screws

Screws shall be self-drilling self-tapping. Screw penetration through joined materials shall not be less than three exposed threads. Minimum spacings and edge distances for screws shall be as specified in AISI SG-971-Spec. Screws covered by sheathing materials shall have low profile heads.

3.2.3 Anchors

Anchors shall be of the type, size, and location shown on the drawings.

3.3 INSTALLATION

3.3.1 General Requirements

- a. Prefabricated frames shall be square, with components attached to prevent racking during fabrication, transportation, and lifting. Design and construction of frames shall include provisions for lifting.
- b. Cutting of steel framing shall be by saw, shear, or plasma cutting equipment. Oxyacetylene torch cutting is not permitted.
- c. Temporary bracing shall be provided and remain in place until work is permanently stabilized.
- d. Abutting lengths of track shall be butt-welded, spliced, or each length securely anchored to a common structural element. Track shall be securely anchored to the supporting structure as shown on the drawings.
- e. Splicing of framing components, other than track and tension members, is not permitted.
- f. Wire tying of framing members is not permitted.

3.3.2 Non-Load Bearing Walls (Curtain walls)

- a. Studs shall be spaced as shown on the drawings.
- b. Studs shall be plumbed, aligned, and secured to the continuous runner tracks at each end, unless the stud end terminates at a deflection track.

- c. Tracks shall be securely anchored to the supporting structure as shown on the drawings.
- d. Bridging spaced at 48 inches shall be installed prior to the installation of facing materials.
- e. Framed wall openings shall include headers and supporting components as shown on the drawings. Headers shall be installed in all openings that are larger than the stud spacing in a wall.
- f. At wall openings for doors, windows and other similar features, the framing system shall provide for the installation and anchorage of the required subframes or finish frames. Steel frames shall be securely attached through built-in anchors to the nearest stud on each side of the opening with self-drilling screws. Double studs shall be provided at both jambs of all door openings.
- g. Installation of sheathing, wallboards, or any other collateral material shall be performed in accordance with the product manufacturer's specifications.

3.4 TOLERANCES

Vertical alignment (plumbness) of studs shall be within 1/960th of the span. Horizontal alignment (levelness) of walls shall be within 1/960th of their respective lengths. Spacing of studs shall not be more than plus 1/8 inch from the designed spacing providing the the cumulative error does not exceed the requirements of the finishing material.

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SECTION 08210

WOOD DOORS

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.

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 252 | (1995) Fire Tests of Door Assemblies |

NATIONAL WOOD WINDOW & DOOR ASSOCIATION (NWWDA)

- | | |
|----------------|---------------------------------------|
| NWWDA I.S. 1-A | (1997) Architectural Wood Flush Doors |
|----------------|---------------------------------------|

1.2 GENERAL REQUIREMENTS

1.2.1 Standard Products

Doors shall be of the type, size, and design indicated on the drawings, and shall be the standard products of manufacturers regularly engaged in the manufacture of wood doors.

1.2.2 Marking

Each door shall bear a stamp, brand, or other identifying mark indicating quality and construction of the door. The identifying mark or a separate certification shall include identification of the standard on which construction of the door is based, identity of the manufacturing plant, identification of the standard under which preservative treatment, if used, was made.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation . The following shall be submitted in accordance with SECTION 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Wood Doors.

Drawings indicating the location of each door, elevation of each type of door, details of construction, marks to be used to identify the doors, and location and extent of hardware blocking. Drawings shall include

catalog cuts or descriptive data for doors.

SD-06 Test Reports

Fire Rated Doors.

Manufacturers preprinted installation and touch-up instructions.

SD-04 Samples

Factory Coated Natural Finish.

Each sample shall have minimum dimensions of 6 inches by 6 inches by minimum thickness of the door.

1.4 STORAGE

Doors shall be stored in fully covered areas and protected from damage and from extremes in temperature and humidity. Doors shall be stored on supports to prevent warping or twisting, and to provide ventilation. Factory cartons or wrappers shall be kept intact until installation.

1.5 HARDWARE

Hardware, including weatherstripping and thresholds, is specified in SECTION 08710 DOOR HARDWARE.

1.6 GLAZING

Glazing is specified in SECTION 08810 GLASS AND GLAZING.

1.7 WARRANTY

Manufacturer's standard performance guarantees or warranties that extend beyond a 1 year period shall be provided.

PART 2 PRODUCTS

2.1 GENERAL FABRICATION REQUIREMENTS

2.1.1 Edge Sealing

Wood end-grain exposed at edges of wood doors shall be sealed prior to shipment.

2.1.2 Adhesives

Adhesives shall be in accordance with NWWDA I.S. 1-A, requirements for Type II Bond Doors (water-repellent) for interior doors. Adhesive for doors to receive a transparent finish shall be nonstaining. Adhesives shall contain no formaldehydes.

2.1.3 Prefitting

Doors shall be not be furnished pre fitted.

2.1.4 Pre hung Units

Doors shall not be furnished pre hung.

2.2 FLUSH DOORS

Flush doors shall be solid core and shall conform to NWWDA I.S. 1-A, except for the one year acclimatization requirement in paragraph T-2, which shall not apply. Wood doors shall be 5-ply construction with faces, stiles, and rails bonded to the cores.

2.2.1 Core Construction

2.2.1.1 Solid Cores

Door construction shall be particle board core with vertical and horizontal edges bonded to the core. Blocking and hardware reinforcements for particle board core doors shall be NWWDA I.S. 1-A blocking options HB-1, and HB-2 as a minimum.

2.2.2 Door Veneer

2.2.2.1 **AM#4...Natural Finished Wood Veneer Doors...AM#4**

AM#4...All flush doors shall have veneer which will receive a factory coated natural finish. Flush solid core wood doors with natural finish veneer shall be NWWDA I.S. 1-A Custom Grade. Vertical stile strips shall be selected to provide edges of the same species and/or color as the face veneer of premium red oak. Door finish shall be in accordance with paragraph FINISHING....AM#4

2.3 FIRE RATED DOORS

Fire rated door assemblies shall bear the listing identification label of a nationally recognized testing laboratory qualified to perform tests of fire door assemblies in accordance with NFPA 252 and having a listing for the tested assemblies. The specific time interval rating on the labels shall be 20 minutes. Door assemblies shall be in accordance with NFPA 80. Listing identification on labels shall be constructed and permanently applied by a method which results in their destruction should they be removed. Fire rated doors shall be particleboard core with 45 minute rating.

2.3.1 Reinforcement Blocking

Fire rated doors shall be provided, as required, with hardware reinforcement blocking, and top, bottom, and intermediate rail blocking. Lock blocks shall be manufacturer's standard. Reinforcement blocking shall be in compliance with the manufacturer's labeling requirements. Reinforcement blocking shall not be of mineral material.

2.3.2 Stile Edges

Vertical stiles shall be of the same species and/or color as the face veneer.

PART 3 EXECUTION

3.1 INSTALLATION OF DOORS

3.1.1 General Use Doors

Doors shall be fit, hung, and trimmed as required. Door shall have a clearance of 1/8 inch at the sides and top and shall have a bottom clearance of 1/4 inch over thresholds and 1/2 inch at other locations unless otherwise shown. The lock edge or both edges of doors shall be beveled at the rate of 1/8 inch in 2 inches. Cuts made on the job shall be sealed immediately after cutting, using a clear varnish or sealer. Bottom of doors shall be undercut to allow clear door swing over carpeted areas. Vertical edges of doors which have not been rounded or beveled at the factory shall be eased when the doors are installed. For fire-rated doors, the undercut height shall not exceed the values listed in NFPA 80, Table 1-11.4.

3.1.2 Fire Rated Doors

Installation, hardware, and operational characteristics shall conform to NFPA 80 and NFPA 101 and shall be in strict conformance with the manufacturer's printed instructions. Properly sized pilot holes shall be drilled for screws in door edges. Factory applied labels shall remain intact where installed. Labeled hinge stile edge and top edge of door shall not be trimmed. Lockstile edge and bottom edge may be trimmed only to the extent recommended by the door manufacturer.

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- 3.2 ERECTION TOLERANCES

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SECTION 09100

AM#4...METAL SUPPORT ASSEMBLIES...AM #4

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 the basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A 463/A 463M	(2000) Steel Sheet, Aluminum-Coated, by the Hot-Dip Process
ASTM A 653/A 653M	(2000) Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
ASTM C 645	(1998) Nonstructural Steel Framing Members
ASTM C 754	(1997) Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products
ASTM C 841	(1997) Installation of Interior Lathing and Furring

METAL LATH/STEEL FRAMING ASSOCIATION (ML/SFA)

NAAMM ML/SFA MLF	(1991) Metal Lathing and Furring
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UNDERWRITERS LABORATORIES (UL)

UL Fire Resist Dir	(2003) Fire Resistance Directory (2 Vol.)
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1.2 SUBMITTALS

Submit the following in accordance with Section 01330, "Submittal Procedures."

SD-02 Shop Drawings

Metal support systems; G

Submit for the erection of metal framing, furring, and ceiling suspension systems. Indicate materials, sizes, thicknesses, and fastenings.

1.3 DELIVERY, STORAGE, AND HANDLING

Deliver materials to the job site and store in ventilated dry locations. Storage area shall permit easy access for inspection and handling. If materials are stored outdoors, stack materials off the ground, supported

on a level platform, and fully protected from the weather. Handle materials carefully to prevent damage. Remove damaged items and provide new items.

PART 2 PRODUCTS

2.1 MATERIALS

Provide steel materials for metal support systems with galvanized coating ASTM A 653/A 653M, G-60; aluminum coating ASTM A 463/A 463M, T1-25; or a 55-percent aluminum-zinc coating.

2.1.1 Materials for Attachment of Lath

2.1.1.1 Suspended and Furred Ceiling Systems and Wall Furring

ASTM C 841.

2.1.1.2 Nonload-Bearing Wall Framing

NAAMM ML/SFA MLF.

2.1.2 Materials for Attachment of Gypsum Wallboard

2.1.2.1 Suspended and Furred Ceiling Systems

ASTM C 645.

2.1.2.2 Nonload-Bearing Wall Framing and Furring

ASTM C 645, but not thinner than 0.0396 inch thickness, with 0.0396 inch minimum thickness supporting wall hung items such as cabinetwork, equipment and fixtures .

2.1.2.3 Furring Structural Steel Columns

ASTM C 645. Steel (furring) clips and support angles listed in UL Fire Resist Dir may be provided in lieu of steel studs for erection of gypsum wallboard around structural steel columns.

2.1.2.4 Z-Furring Channels with Wall Insulation

Not lighter than 20 gage galvanized steel, Z-shaped, with 1 1/4 inch and 3/4 inch flanges and 2 inch furring depth depth as required by the insulation thickness provided.

PART 3 EXECUTION

3.1 INSTALLATION

3.1.1 Systems for Attachment of Lath

3.1.1.1 Suspended and Furred Ceiling Systems and Wall Furring

ASTM C 841, except as indicated otherwise.

3.1.1.2 Nonload-Bearing Wall Framing

NAAMM ML/SFA MLF, except that framing members shall be 16 inches o.c.

unless indicated otherwise.

3.1.2 Systems for Attachment of Gypsum Wallboard

3.1.2.1 Suspended and Furred Ceiling Systems

ASTM C 754, except that framing members shall be 16 inches o.c. unless indicated otherwise.

3.1.2.2 Nonload-Bearing Wall Framing and Furring

ASTM C 754, except as indicated otherwise.

3.1.2.3 Furring Structural Steel Columns

Install studs or galvanized steel clips and support angles for erection of gypsum wallboard around structural steel columns in accordance with the UL Fire Resist Dir, design number(s) of the fire resistance rating indicated.

3.1.2.4 Z-Furring Channels with Wall Insulation

Install Z-furring channels vertically spaced not more than 24 inches o.c. Locate Z-furring channels at interior and exterior corners in accordance with manufacturer's printed erection instructions. Fasten furring channels to masonry and concrete walls with powder-driven fasteners or hardened concrete steel nails through narrow flange of channel. Space fasteners not more than 24 inches o.c.

3.2 ERECTION TOLERANCES

Framing members which will be covered by finish materials such as wallboard, plaster, or ceramic tile set in a mortar setting bed, shall be within the following limits:

- a. Layout of walls and partitions: 1/4 inch from intended position;
- b. Plates and runners: 1/4 inch in 8 feet from a straight line;
- c. Studs: 1/4 inch in 8 feet out of plumb, not cumulative; and
- d. Face of framing members: 1/4 inch in 8 feet from a true plane.

Framing members which will be covered by ceramic tile set in dry-set mortar, latex-portland cement mortar, or organic adhesive shall be within the following limits:

- a. Layout of walls and partitions: 1/4 inch from intended position;
- b. Plates and runners: 1/8 inch in 8 feet from a straight line;
- c. Studs: 1/8 inch in 8 feet out of plumb, not cumulative; and
- d. Face of framing members: 1/8 inch in 8 feet from a true plane.

-- End of Section --