

Enclosure 4

Example of  
Requirements Contract (RC)

SOLICITATION NO. DACA79-93-B-0012

CAMP FUJI, JAPAN

# SPECIFICATIONS FOR

REQUIREMENTS CONTRACT

INTERIOR AND EXTERIOR PAINTING, VARIOUS STRUCTURES

**PARTIAL DOCUMENT**  
Complete document on file at CEHNC-ED-ES-G



**US Army Corps  
of Engineers**  
Japan Engineer District

Date 23 Jun 1993

|   |   |  |                             |                       |
|---|---|--|-----------------------------|-----------------------|
| <b>SOLICITATION, OFFER AND AWARD</b><br>(Construction, Alteration, or Repair) | 1. SOLICITATION NO.<br>DACA79-93-B-0012   | 2. TYPE OF SOLICITATION<br><input checked="" type="checkbox"/> SEALED BID (IFB)<br><input type="checkbox"/> NEGOTIATED (RFP) | 3. DATE ISSUED<br>JUN 23 93 | PAGE OF PAGES<br>1/ 3 |
|   | IMPORTANT! - The "offer" section on the reverse must be fully completed by offeror. |  |                             |                       |

|                 |   |                                    |
|-----------------|---|------------------------------------|
| 4. CONTRACT NO. | 5. REQUISITION/PURCHASE REQUEST NO.<br>JEEDPS-3159-3014 | 6. PROJECT NO.<br>DACA79-93-B-0012 |
|-----------------|---|------------------------------------|

|   |   |
|---|---|
| 7. ISSUED BY<br>U.S. Army Engineer District, Japan<br>Unit 45010<br>APO AP 96343-0061 | 8. ADDRESS OFFER TO<br>U.S. Army Engineer District, Japan<br>Bldg 250, Room 147, Camp Zama<br>Zama-shi, Kanagawa-ken, Japan 228 |
|---|---|

|                          |                             |   |
|--------------------------|-----------------------------|---|
| 9. FOR INFORMATION CALL: | A. NAME<br>Kenneth C. Scott | B. TELEPHONE NO. (include area code) (NO COLLECT CALLS)<br>0462-52-0994 |
|--------------------------|-----------------------------|---|

**SOLICITATION**

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS (Title, identifying no., date):

THIS IS A REQUIREMENTS CONTRACT

INVITATION FOR BIDS, Solicitation No. DACA79-93-B-0012, Exterior & Interior Painting, Various Structures, Camp Fuji, Japan.

\* Reference Block 11, below: To be established by Individual Work Requests issued under Delivery Orders.

\*\*\*\*\*  
 \* The Bidder should note: Failure to submit with your Bid, the completed \*  
 \* and signed "CERTIFICATE OF PROCUREMENT INTEGRITY", as part of Section \*  
 \* "K", Representations, Certifications, and Other Statements of Bidders, \*  
 \* shall render your Bid nonresponsive if in excess of \$100,000. \*  
 \*\*\*\*\*

11. The Contractor shall begin performance within \_\_\_\_\_ calendar days and complete it within \_\_\_\_\_ calendar days after receiving  
 award,  notice to proceed. This performance period is  mandatory,  negotiable. (See \*See Block 10 \_\_\_\_\_.)

|  |                    |
|--|--------------------|
| 12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS?<br>(If "YES," indicate within how many calendar days after award in Item 12B.)<br><br><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | 12B. CALENDAR DAYS |
|--|--------------------|

13. ADDITIONAL SOLICITATION REQUIREMENTS:
- A. Sealed offers in original and 0 copies to perform the work required are due at the place specified in Item 8 by 14:00 (hour) local time 07/22/93 (date). If this is a sealed bid solicitation, offers must be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.
  - B. An offer guarantee  is,  is not required.
  - C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.
  - D. Offers providing less than 90 calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

|  |               |   |
|--|---------------|---|
| 14. NAME AND ADDRESS OF OFFEROR (Include ZIP Code) |               | 15. TELEPHONE NO. (include area code)                           |
|  |               | 18. REMITTANCE ADDRESS (Include only if different than Item 14) |
| CODE   | FACILITY CODE |   |

17. The offeror agrees to perform the work required at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing within \_\_\_ calendar days after the date offers are due. (Insert any number equal to or greater than the minimum requirement stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.)

**AMOUNTS** ▶

See Attached, "BIDDING SCHEDULE"

18. The offeror agrees to furnish any required performance and payment bonds.

19. ACKNOWLEDGMENT OF AMENDMENTS  
(The offeror acknowledges receipt of amendments to the solicitation - give number and date of each)

| AMENDMENT NO. |  |  |  |  |  |  |  |  |  |  |
|---------------|--|--|--|--|--|--|--|--|--|--|
| DATE          |  |  |  |  |  |  |  |  |  |  |

20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER  
(Type or print)

20B. SIGNATURE

20C. OFFER DATE

**AWARD (To be completed by Government)**

21. ITEMS ACCEPTED:

22. AMOUNT

23. ACCOUNTING AND APPROPRIATION DATA

24. SUBMIT INVOICES TO ADDRESS SHOWN IN  
(4 copies unless otherwise specified)

ITEM

25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO

10 U.S.C. 2304(c) ( )

41 U.S.C. 253(c) ( )

28. ADMINISTERED BY

CODE

27. PAYMENT WILL BE MADE BY

**CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE**

**28. NEGOTIATED AGREEMENT** (Contractor is required to sign this document and return \_\_\_ copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all work, requisitions identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications incorporated by reference in or attached to this contract.

**29. AWARD** (Contractor is not required to sign this document.) Your offer on this solicitation, is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.

30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN (Type or print)

31A. NAME OF CONTRACTING OFFICER (Type or print)

30B. SIGNATURE

30C. DATE

31B. UNITED STATES OF AMERICA  
BY

31C. AWARD DATE

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\*\* The Bidder should note that a copy of SECTION "K", REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF BIDDERS, must accompany the bid.

**SECTION B  
SUPPLIES OR SERVICES AND PRICES/COSTS**

**BIDDING SCHEDULE**

**EXTERIOR & INTERIOR PAINTING, VARIOUS STRUCTURES  
CAMP FUJI, JAPAN**

| <u>Item No.</u> | <u>Description</u>   | <u>Estimated Quantity</u> | <u>Unit</u> | <u>Unit Price</u> | <u>Amount</u> |
|-----------------|--|---------------------------|-------------|-------------------|---------------|
| 0001            | EXTERIOR SURFACES<br>Paint previously painted surfaces of concrete, cement mortar, masonry and ALC, and unpainted surfaces of new cement mortar. Surface preparation does not include sanding. | 14,500<br>(Est.)          | SM          | Y _____           | Y _____       |
| 0002            | EXTERIOR SURFACES<br>Paint previously painted surfaces of concrete. Surface preparation includes removal of peeling lead containing paint by sanding   | 70<br>(Est.)              | SM          | Y _____           | Y _____       |
| 0003            | EXTERIOR SURFACES<br>Paint previously painted galvanized and ferrous metal surfaces. Surface preparation includes sanding lead containing paint  | 4,200<br>(Est.)           | SM          | Y _____           | Y _____       |
| 0004            | EXTERIOR SURFACES<br>paint previously painted and unpainted gypsum slag board surfaces. Surface preparation does not include sanding.  | 1,100<br>(Est.)           | SM          | Y _____           | Y _____       |
| 0005            | EXTERIOR SURFACES<br>Paint previously painted surfaces of wood and plywood. Surface preparation includes sanding lead containing paint.  | 500<br>(Est.)             | SM          | Y _____           | Y _____       |
| 0006            | EXTERIOR SURFACES<br>Paint previously painted surfaces of PVC. Surface preparation includes sanding non-lead containing paint.   | 600<br>(Est.)             | SM          | Y _____           | Y _____       |

|      |  |                  |    |         |         |
|------|--|------------------|----|---------|---------|
| 0007 | EXTERIOR SURFACES<br>Paint previously painted<br>PVC. Surface preparation<br>includes sanding lead<br>containing paint.  | 140<br>(Est.)    | SM | Y _____ | Y _____ |
| 0008 | EXTERIOR SURFACES<br>Paint previously painted<br>surfaces of smoke stacks.<br>Surface preparation<br>includes sanding lead<br>containing paint.                    | 120<br>(Est.)    | SM | Y _____ | Y _____ |
| 0009 | EXTERIOR SURFACES<br>Scaffolding.  | 23,000<br>(Est.) | SM | Y _____ | Y _____ |
| 0010 | INTERIOR SURFACES<br>Paint previously painted<br>surfaces of gypsum board.<br>Surface preparation does<br>not include sanding.                                     | 20,000<br>(Est.) | SM | Y _____ | Y _____ |
| 0011 | INTERIOR SURFACES<br>Paint previously painted<br>surfaces of galvanized and<br>ferrous metal. Surface<br>preparation does not<br>include sanding.                  | 200<br>(Est.)    | SM | Y _____ | Y _____ |
| 0012 | INTERIOR SURFACES<br>Paint previously painted<br>surfaces of galvanized and<br>ferrous metal. Surface<br>preparation includes<br>sanding lead containing<br>paint. | 800<br>(Est.)    | SM | Y _____ | Y _____ |
| 0013 | INTERIOR SURFACES<br>Paint previously painted<br>surfaces of wood and<br>plywood. Surface<br>preparation does not<br>include sanding.                              | 230<br>(Est.)    | SM | Y _____ | Y _____ |
| 0014 | INTERIOR SURFACES<br>Paint previously painted<br>surfaces of wood and<br>plywood. Surface<br>preparation includes<br>sanding led containing<br>paint.              | 1,100<br>(Est.)  | SM | Y _____ | Y _____ |
| 0015 | INTERIOR SURFACES<br>Paint previously painted<br>surfaces of moisture<br>resistant gypsum board.<br>Surface preparation does<br>not include sanding.               | 110<br>(Est.)    | SM | Y _____ | Y _____ |

|      |   |                  |    |         |         |
|------|---|------------------|----|---------|---------|
| 0016 | INTERIOR SURFACES<br>Portable trestle platform.   | 11,000<br>(Est.) | SM | Y _____ | Y _____ |
| 0017 | REPAIR WORK<br>Repair damages gypsum<br>board by replacement.   | 40<br>(Est.)     | SM | Y _____ | Y _____ |
| 0018 | REPAIR WORK<br>Repair damaged ALC<br>board with cement mortar   | 30<br>(Est.)     | SM | Y _____ | Y _____ |
| 0019 | REPAIR WORK<br>Provide gypsum slag board<br>where gypsum slag board<br>is missing.                    | 5<br>(Est.)      | SM | Y _____ | Y _____ |
| 0020 | REPAIR WORK<br>Provide PVC downspout<br>(100 diam.) where it<br>is missing or damaged.                | 10<br>(Est.)     | LM | Y _____ | Y _____ |
| 0021 | REPAIR WORK<br>Repair concrete cracks.<br>U-cut cracks and finish<br>with sealer and resin<br>mortar. | 100<br>(Est.)    | LM | Y _____ | Y _____ |

TOTAL BIDDING SCHEDULE ..... Y \_\_\_\_\_  
(Estimated)

NOTES: The following information is furnished as a cross reference guide between the above line items and information reflected in the sketches contained in Section C for a better understanding of the work that may be ordered on work requests.

| Line Item No. | Building No.                               |
|---------------|--|
| 0002          | (FIN WALL OF BLDG. 267 THROUGH 271)        |
| 0004          | (BLDG. 267 THROUGH 271)                    |
| 0007          | (BLDG. 80, 95, 419, T-135, 101, AND T-113) |
| 0011          | (BLDG. 80, 81, 359, 371, 93)               |
| 0014          | (BLDG. T-107)                              |

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SECTION 01305

SUBMITTAL PROCEDURES

PART 1 GENERAL

1.1 SUMMARY (Not Applicable)

1.2 REFERENCES (Not Applicable)

1.3 SUBMITTAL CLASSIFICATION

Submittals are classified as follows:

1.3.1 Government Approved

Government approval is required for extensions of design, critical materials, deviations, equipment whose compatibility with the entire system must be checked, and other items as designated by the Contracting Officer. Within the terms of the Contract Clause entitled "Specifications and Drawings for Construction," they are considered to be "shop drawings."

1.3.2 Information Only

All submittals not requiring Government approval will be for information only. They are not considered to be "shop drawings" within the terms of the Contract Clause referred to above.

1.4 APPROVED SUBMITTALS

The approval of submittals by the Contracting Officer shall not be construed as a complete check, but will indicate only that the general method of construction, materials, detailing and other information are satisfactory. Approval will not relieve the Contractor of the responsibility for any error which may exist, as the Contractor under the CQC requirements of this contract, is responsible for the dimensions and design of adequate connections, details and satisfactory construction of all work. After submittals have been approved by the Contracting Officer, no resubmittal for the purpose of substituting materials or equipment will be given consideration unless accompanied by an explanation as to why a substitution is necessary.

1.5 DISAPPROVED SUBMITTALS

The Contractor shall make all corrections required by the Contracting Officer and promptly furnish a corrected submittal in the form and number of copies as specified for the initial submittal. If the Contractor considers any correction indicated on the submittals to constitute a change to the contract, notice as required under the Contract Clause entitled "Changes" shall be given promptly to the Contracting Officer.

1.6 WITHHOLDING OF PAYMENT

Payment for materials incorporated in the work will not be made if required approvals have not been obtained.

PART 2 PRODUCTS (Not Applicable)

3.1      GENERAL

The Contractor shall submit all items listed on the Submittal Register (ENG Form 4288) or specified in the other sections of these specifications. The Contracting Officer may request submittals in addition to those listed when deemed necessary to adequately describe the work covered in the respective sections. Units of weights and measures used on all submittals shall be the same used in the contract drawings. Submittals shall be made in the respective number of copies and to the respective addresses set forth below. Each submittal shall be complete and in sufficient detail to allow ready determination of compliance with contract requirements. Prior to submittal, all items shall be checked and approved by the Contractor's Quality Control (CQC) representative and each respective transmittal form (ENG Form 4025) shall be stamped, signed, and dated by the CQC representative certifying that the accompanying submittal complies with the contract requirements. Proposed deviations from the contract requirements shall be clearly identified. Submittals shall include items such as: Contractor's, manufacturer's, or fabricator's drawings; descriptive literature including (but not limited to) catalog cuts, diagrams, operating charts or curves; test reports; test cylinders; samples; O&M manuals including parts list; certifications, warranties and other such required submittals. Submittals requiring Government approval shall be scheduled and made prior to the acquisition of the material or equipment covered thereby.

3.2      SUBMITTAL REGISTER (ENG Form 4288)

Included in Section J is one set of ENG Forms 4288 listing each item of equipment and material for which submittals are required by the specifications. Columns "c" thru "o" have been completed by the Government. The Contractor shall complete columns "a," "b," and "p" thru "s" and return 4 completed copies to the Contracting Officer for approval within 30 calendar days after Notice to Proceed for approval. The approved submittal register will become the scheduling document and will be used to control submittals throughout the life of the contract. This register and the progress schedules shall be coordinated.

3.3      SCHEDULING

Submittals covering component items forming a system or items that are interrelated shall be scheduled to be coordinated and submitted concurrently. Certifications to be submitted with the pertinent drawings shall be so scheduled. Adequate time (a minimum of 30 calendar days exclusive of mailing time) shall be allowed on the register for review and approval. No delays damages or time extensions will be allowed for time lost in late submittals. An additional 15 calendar days shall be allowed and shown on the register for review and approval of submittals for food service equipment and submittals for refrigeration and HVAC control systems.

3.4      TRANSMITTAL FORM (ENG Form 4025)

The sample transmittal form (ENG Form 4025) attached to Section J shall be used for submitting both Government approved and information only submittals in accordance with the instructions on the reverse side of the form. These forms will be furnished to the Contractor. This form shall be properly completed by filling out all the heading blank spaces and identifying each item submitted. Special care will be exercised to ensure proper listing of the specification paragraph and/or sheet number of the contract drawings pertinent to the data submitted for each item.

### 3.5 SUBMITTAL PROCEDURE

Submittals shall be made as follows:

#### 3.5.1 Procedures

All submittals shall be made using ENG Form 4025 as the transmittal document and shall be furnished in five copies. Submittal control documents and all submittals to the Contracting Officer shall be addressed to:

Kanagawa Resident Office  
U.S. Army Engineer District, Japan  
Unit 45010  
APO AP 96343-0061

#### 3.5.2 Deviations

For submittals which include proposed deviations requested by the Contractor, the column "variation" of ENG form 4025 shall be checked. The Contractor shall set forth in writing the reason for any deviations and annotate such deviations on the submittal. The Government reserves the right to rescind inadvertent approval of submittals containing unnoted deviations.

### 3.6 CONTROL OF SUBMITTALS

The Contractor shall carefully control his procurement operations to ensure that each individual submittal is made on or before the Contractor scheduled submittal date shown on the approved "Submittal Register."

#### 3.6.1 Monthly Updates of Submittal Register

Monthly updates of the initially accepted Submittal Register, ENG Form 4288, shall be provided in duplicate at the time the monthly progress payment is normally requested and be current to within one (1) week of the date of submission. If the Contractor fails to provide the Government an acceptable initial submittal register or monthly updates within the specified time frames, the Government may issue a stop work order for the affected portions and withhold a portion of pending progress payments due to non-performance. Any resulting cost or time loss to the Contractor due to such Government action shall not be subject to a claim for the time extensions or for additional cost or damages by the Contractor. Furnishing of the submittal register by the Contractor and subsequent review by the Government do not relieve the Contractor of the obligation to comply with all of the contract submittal requirements; for example, even if a required submittal was not originally listed on the initial register accepted by the Government, the Contractor will still be responsible for providing such submittal in accordance with the contract. The following shall be provided on the monthly updates to the initially approved schedule (NOTE: Column letter designations specified below are based on ENG Form 4288, dated May 91):

a. Transmittal Number (column a), Item Number (column b), and entries under columns t through x as appropriate.

b. Distinguish those submittals which are VARIANCES, as appropriate.

c. Furnish Contractor's status report on pending resubmittal actions.

3.7 GOVERNMENT APPROVED SUBMITTALS

Upon completion of review of submittals requiring Government approval, the submittals will be identified as having received approval by being so stamped and date. Four copies of the submittal will be retained by the Contracting Officer and one copy of the submittal will be returned to the Contractor.

3.8 INFORMATION ONLY SUBMITTALS

Normally submittals for information only will not be returned. Approval of the Contracting Officer is not required on information only submittals. These submittals will be used for information purposes. The Government reserves the right to require the Contractor to resubmit any item found not to comply with the contract. This does not relieve the Contractor from the obligation to furnish material conforming to the plans and specifications and will not prevent the Contracting Officer from requiring removal and replacement if nonconforming material is incorporated in the work. This does not relieve the Contractor of the requirement to furnish samples for testing by the Government laboratory or check testing by the Government in those instances where the technical specifications so prescribe.

3.9 STAMPS

Stamps used by the Contractor on the submittal data to certify that the submittal meets contract requirements shall be similar to the following:

|   |
|---|
| <p>CONTRACTOR</p> <p>(Firm Name)</p> <p>_____ Approved</p> <p>_____ Approved with corrections as noted on submittal data and/or attached sheet(s).</p> <p>SIGNATURE: _____</p> <p>TITLE: _____</p> <p>DATE: _____</p> |
|---|

- - End of Section - -

SECTION 01440

CONTRACTOR QUALITY CONTROL

PART 1 GENERAL

1.1 SUMMARY (Not Applicable)

1.2 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 D 3740 (1988) Evaluation of Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and construction

ASTM E 329 (1990) Use in the Evaluation of Testing and Inspection Agencies as Used in construction

1.3 PAYMENT

Separate payment will not be made for providing and maintaining an effective Quality Control program, and all costs associated therewith shall be included in the applicable unit prices or lump-sum prices contained in the Bidding Schedule.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

3.1 GENERAL

The Contractor is responsible for quality control and shall establish and maintain an effective quality control system in compliance with the Contract Clause entitled "Inspection of construction." The quality control system shall consist of plans, procedures, and organization necessary to produce an end product which complies with the contract requirements. The system shall cover all construction operations, both on-site and off-site, and shall be keyed to the proposed construction sequence.

3.2 QUALITY CONTROL PLAN

3.2.1 General

The Contractor shall furnish for review by the Government, not later than 30 days after receipt of notice to proceed, the Contractor Quality Control (CQC) Plan proposed to implement the requirements of the Contract Clause entitled "Inspection of Construction." The plan shall identify personnel, procedures, control, instructions, test, records, and forms to be used. The Government will consider an interim plan for the first 45 days of operation. Construction will be permitted to begin only after acceptance of the CQC Plan or acceptance of an interim plan applicable to the particular feature of work to be started. Work outside of the features of work included in an accepted interim plan will not be permitted to begin until acceptance of a CQC Plan or another interim plan containing the additional features of work to be started.

### 3.2.2 Content of the CQC Plan

The CQC plan shall include, as a minimum, the following to cover all construction operations, both on-site and off-site, including work by subcontractors, fabricators, suppliers and purchasing agents:

a. A description of the quality control organization, including a chart showing lines of authority and acknowledgment that the CQC staff shall implement the three phase control system for all aspects of the work specified. The staff shall include a CQC system manager who shall report to the Project manager in this context shall mean the individual with responsibility for the overall management of the project including quality and production.

b. The name, qualifications (in resume format), duties, responsibilities, and authorities of each person assigned a QC function.

c. A copy of the letter to the CQC System Manager signed by an authorized official of the firm which describes the responsibilities and delegates sufficient authorities to adequately perform the functions of the CQC System Manager including authority to stop work which is not in compliance with the contract. The CQC System Manager shall issue letters of direction to all other various quality control representatives outlining duties, authorities and responsibilities. Copies of these letters will also be furnished to the Government.

d. Procedures for scheduling, reviewing, certifying, and managing submittals, including those of subcontractors, off-site fabricators, suppliers and purchasing agents. These procedures shall be in accordance with Section 01305 SUBMITTAL PROCEDURES.

e. Control, verification and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and person responsible for each test. (Laboratory facilities will be approved by the Contracting Officer.)

f. Procedures for tracking preparatory, initial, and follow-up control phases and control, verification, and acceptance tests including documentation.

g. Procedures for tracking construction deficiencies from identification through acceptable corrective action. These procedures will establish verification that identified deficiencies have been corrected.

h. Reporting procedures, including proposed reporting formats.

i. A list of the definable features of work. A definable feature of work is a task which is separate and distinct from other tasks and has separate control requirements. It could be identified by different trades or disciplines, or it could be work by the same trade in a different environment. Although each section of the specifications may generally be considered as a definable feature of work, there are frequently more than one definable feature under a particular section. This list will be agreed upon during the coordination meeting.

### 3.2.3 Acceptance of the Plan

Acceptance of the Contractor's plan is required prior to the start of construction. Acceptance is conditional and will be predicated on satisfactory performance during the construction. The Government reserves the right to require the Contractor to make changes in his CQC plan and operations including removal of personnel, as necessary, to obtain the quality specified.

### 3.2.4 Notification of Changes

After acceptance of the QC plan, the Contractor shall notify the Contracting Officer in writing a minimum of seven calendar days prior to any proposed change. Proposed changes are subject to acceptance by the Contracting Officer.

### 3.3 COORDINATION MEETING

After the Preconstruction Conference, before start of construction, and prior to acceptance by the Government of the Quality Control Plan, the Contractor shall meet with the Contracting Officer or Authorized Representative and discuss the Contractor's quality control system. During the meeting, a mutual understanding of the system details shall be developed, including the forms for recording the CQC operations, control activities, testing, administration of the system for both on-site and off-site work, and the interrelationship of Contractor's Management and control with the Government's Quality Assurance. Minutes of the meeting shall be prepared by the government and signed by both the Contractor and the Contracting Officer. The minutes shall become a part of the contract file. There may be occasions when subsequent conferences will be called by either party to reconfirm mutual understandings and/or address deficiencies in the CQC system or procedures which may require corrective action by the Contractor.

### 3.4 QUALITY CONTROL ORGANIZATION

#### 3.4.1 CQC System Manager

The Contractor shall identify an individual within his organization at the site of the work who shall be responsible for overall management of CQC and System Manager shall be on the site at all times during construction and will be employed by the Contractor, except as noted in the following. An alternate for the CQC System Manager will be identified in the plan to serve in the event of the system manager's absence. Period of absence may not exceed two weeks at any one time, and not more than 30 workdays during a calendar year. The requirements for the alternate will be the same as for the designated CQC manager.

#### 3.4.2 CQC Organizational Staffing

The Contractor shall provide a CQC staff which shall be at the site of work at all times during progress, with complete authority to take any action necessary to ensure compliance with the contract.

##### 3.4.2.1 CQC Staff

Following are the minimum requirements for the CQC staff. These minimum requirements will not necessarily assure an adequate staff to meet the CQC requirements at all times during construction. The actual strength of the CQC staff may vary during any specific work period to cover the needs of the work period. When necessary for a proper CQC organization, the Contractor will add additional staff at no cost to the Government. This listing of minimum staff in no way relieves the Contractor of meeting the basic requirements of quality construction in accordance with contract requirements. All CQC staff members shall be subject to acceptance by the Contracting Officer.

##### 3.4.2.2 CQC System Manager (applicable boxes contain an X)

The CQC system manager shall be:

( ) a graduate engineer, graduate architect, or a graduate of construction management, with a minimum of [ ] years construction experience on similar type construction to this contract.

(X) an experienced construction person with a minimum of [ 3 ] years experience in related work.

The CQC system manager shall be:

( ) assigned no other duties.

(X) assigned as system manager but may have duties as project superintendent in addition to quality control.

3.4.2.3 Supplemental Personnel: (applicable boxes contain an X)

( ) The Contractor shall provide as part of the CQC organization, as a minimum, specialized personnel for the following areas: ( ) electrical, ( ) mechanical, ( ) civil, ( ) structural, ( ) environmental, and ( ) architectural. These personnel shall assist and report to the CQC system manager. Each person will be responsible for assuring the construction complies with the contract requirements for their area of specialization. These individuals shall: be employed by the prime contractor, unless waived in writing by the contracting officer; be responsible only to the CQC system manager; be physically present at the construction site during work on their areas of responsibility; have the necessary education and/or experience to ensure contract compliance.

(X) A staff shall be maintained under the direction of the CQC system manager to perform all QC activities. The staff must be of sufficient size to ensure adequate QC of all QC activities. The staff must be of sufficient size to ensure adequate QC coverage of all work phases, work shifts, and work crews involved in the construction. These personnel may perform other duties, but must be fully qualified by experience and technical training to perform their assigned QC responsibilities and must be allowed sufficient time to carry out these responsibilities. The QC plan will clearly state the duties and responsibilities of each staff member.

3.4.3 Organizational Changes

The Contractor shall obtain Contracting Officer's acceptance before replacing any member of the CQC staff. Requests shall include the names, qualifications, duties, and responsibilities of each proposed replacement.

3.5 SUBMITTALS

Submittals shall be as specified in Section 01305 SUBMITTAL PROCEDURES. The CQC organization shall be responsible for certifying that all submittals are in compliance with the contract requirements.

3.6 CONTROL

Contractor Quality Control is the means by which the Contractor ensures that the construction, to include that of subcontractors and suppliers, complies with the requirements of the contract. The controls shall be adequate to cover all construction operations, including both on-site and off-site fabrication, and will be keyed to the proposed construction sequence. The controls shall include at least three phases of control to be conducted by the CQC system manager for all definable features of work, as follows:

3.6.1 Preparatory Phase

This phase shall be performed prior to beginning work on each definable feature of work and shall include:

- a. A review of each paragraph of applicable specifications.
- b. A review of the contract plans.

c. A check to assure that all materials and/or equipment have been tested, submitted, and approved.

d. A check to assure that provisions have been made to provide required control inspection and testing.

e. Examination of the work area to assure that all required preliminary work has been completed and is in compliance with the contract.

f. A physical examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawing or submitted data, and are properly stored.

g. A review of the appropriate activity hazard analysis to assure safety requirements are met.

h. Discussion of procedures for constructing the work including repetitive deficiencies. Document construction tolerances and workmanship standards for that phase of work.

i. A check to ensure that the portion of the plan for the work to be performed has been accepted by the Contracting Officer.

j. The Government shall be notified at least 48 hours in advance of beginning any of the required action of the preparatory phase. This phase shall include a meeting conducted by the CQC system manager and attended by the superintendent, other CQC personnel (as applicable), and the foreman responsible for the definable feature. The results of the preparatory phase actions shall be documented by separate minutes prepared by the CQC system manager and attached to the daily QC report. The Contractor shall instruct applicable workers as to the acceptable level of workmanship required in order to meet contract specifications.

### 3.6.2 Initial Phase

This phase shall be accomplished at the beginning of a definable feature of work. The following shall be accomplished:

a. A check of preliminary work to ensure that it is in compliance with contract requirements. Review minutes of the preparatory meeting.

b. Verification of full contract compliance. Verify required control inspection and testing.

c. Establish level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with sample panels is appropriate.

d. Resolve all differences.

e. Check safety to include compliance with and upgrading of the safety plan and activity hazard analysis. Review the activity analysis with each worker.

f. The Government shall be notified at least 48 hours in advance of beginning the initial phase. Separate minutes of this phase shall be prepared by the CQC system manager and attached to the daily QC report. Exact location of initial phase shall be indicated for future reference and comparison with follow-up phases.

g. The initial phase should be repeated for each new crew to work on-site, or any item acceptable specified quality standards are not being met.

### 3.6.3 Follow-up Phase

Daily checks shall be performed to assure continuing compliance with contract requirements, including control testing, until completion of the particular feature of work. The checks shall be made a matter of record in particular feature of work. The checks shall be made a matter of record in the CQC documentation. Final follow-up checks shall be conducted and all deficiencies corrected prior to the start of additional features of work which may be affected by the deficient work. The Contractor shall not build upon or conceal non-conforming work.

#### 3.6.4 Additional Preparatory and Initial Phases

Additional preparatory and initial phases may be conducted on the same definable features of work as determined by the Government if the quality of on-going work is unacceptable; or if there are changes in the applicable QC staff or in the on-site production supervision or work crew; or if work on a definable feature is resumed after a substantial period of inactivity or if other problems develop.

### 3.7 TESTS

#### 3.7.1 Testing Procedure

The contractor shall perform tests specified or required to verify that control measures are adequate to provide a product which conforms to contract requirements. Testing includes operation and/or acceptance tests when specified. The Contractor shall procure the services of a Corps of Engineers approved testing laboratory or establish an approved testing laboratory at the project site. A list of tests to be performed shall be furnished as a part of the CQC plan. The list shall give the test name, frequency, specification paragraph containing the test requirements, the personnel and laboratory responsible for each type of test, and an estimate of the number of test required. The Contractor shall perform the following activities and record and provide the following data:

- a. Verify that testing procedures comply with contract requirements.
- b. Verify that facilities and testing equipment are available and comply with testing standards.
- c. Check test instrument calibration data against certified standards.
- d. Verify that recording forms and test identification control number system, including all of the test documentation requirements, have been prepared.
- e. Results of all tests taken, both passing and failing tests, will be recorded on the Quality Control report for the date taken. Specification paragraph reference, location where tests were taken, and the sequential control number identifying the test will be given. Actual test reports may be submitted later, if approved by the Contracting Officer, with a reference to the test number and date taken. An information copy of tests performed by an off-site or commercial test facility will be provided directly to the Contracting Officer. Failure to submit timely test reports, as stated, may result in nonpayment for related work performed and disapproval of the test facility for this contract.

#### 3.7.2 Testing Laboratories

##### 3.7.2.1 Capability Check

The Government reserves the right to check laboratory equipment in the proposed laboratory for compliance with the standards set forth in the contract specifications and to check the laboratory technician's testing

procedures and techniques. Laboratories utilized for testing soils, concrete, asphalt and steel shall meet criteria detailed in ASTM D 3740 and ASTM E 329.

### 3.7.2.2 Capability Recheck

If the selected laboratory fails the capability check, the Contractor will be assessed a charge to fully reimburse the Government for each succeeding recheck of the laboratory or the checking of a subsequently selected laboratory. Such costs will be deducted from the contract amount due the contractor.

### 3.7.3 On-Site Laboratory

The Government reserves the right to utilize the Contractor's control testing laboratory and equipment to make assurance tests and to check the Contractor's testing procedures, techniques, and test results at no additional cost to the Government.

### 3.7.4 Furnishing or Transportation of Samples for Testing

Costs incidental to the transportation of samples or materials will be borne by the Contractor. Samples of materials for test verification and acceptance testing by the Government shall be delivered to the responsible Corps of Engineers project office.

## 3.8 COMPLETION INSPECTION

At the completion of all work or any increment thereof established by a completion time stated in the Special Clause entitled "Commencement, Prosecution, and Completion of Work," or stated elsewhere in the specifications, the CQC system manager shall conduct an inspection of the work and develop a "punch list" of items which do not conform to the approved plans and specifications. Such a list of deficiencies shall be included in the CQC documentation, as required by paragraph documentation below, and shall include the estimated date by which the deficiencies will be corrected. The CQC system manager or staff shall make a second inspection to ascertain that all deficiencies have been corrected and so notify the Government. These inspections and any deficiency corrections required by this paragraph will be accomplished within the time stated for completion of the entire work or any particular increment thereof if the project is divided into increments by separate completion dates.

## 3.9 DOCUMENTATION

The Contractor shall maintain current records of quality control operations, activities, and tests performed, including the work of subcontractors and suppliers. These records shall be on an acceptable form and shall include factual evidence that required quality control activities and/or tests have been performed, including but not limited to the following:

- a. Contractor/subcontractor and their area of responsibility.
- b. Operating plant/equipment with hours worked, idle, or down for repair.
- c. Work performed today, giving location, description, and by whom. When Network Analysis (NAS) is used, identify each phase of work performed each day by NAS activity number.
- d. Test and/or control activities performed with results and references to specifications/plan requirements. The control phase should be identified (Preparatory, Initial, Follow-up). List deficiencies noted along with corrective action.

e. Material received with statement as to its acceptability and storage.

f. Identify submittals reviewed, with contract reference, by whom, and action taken.

g. Off-site surveillance activities, including actions taken.

h. Job safety evaluations stating what was checked, results, and instructions or corrective actions.

i. List instructions given/received and conflicts in plans and/or specifications.

j. Contractor's verification statement.

k. These records shall indicate a description of trades working on the project; the number of personnel working; weather conditions encountered; and any delays encountered. These records shall cover both conforming and deficient features and shall include a statement that equipment and materials incorporated in the work and workmanship comply with the contract. The original and one copy of these records in report form shall be furnished to the Government daily within 24 hours after the date(s) covered by the report, except that reports need not be submitted for days on which no work is performed. As a minimum, one report shall be prepared and submitted for every seven days of no work and on the last day of a no work period. All calendar days shall be accounted for throughout the life of the contract. The first report following a day of no work shall be for that day only. Reports shall be signed and dated by the CQC system manager. The report from the CQC system manager shall include copies of test reports and copies of reports prepared by all subordinate quality control personnel.

### 3.10 SAMPLE FORMS

Sample forms enclosed at the end of this section.

### 3.11 NOTIFICATION OF NONCOMPLIANCE

The Contracting Officer will notify the Contractor of any detected noncompliance with the foregoing requirements. The Contractor shall, after receipt of such notice, immediately take corrective action. Such notice, when delivered to the Contractor at the site of the work, shall be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, The contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders shall be made the subject of claim for extension of time or for excess costs or damages by the contractor.

- - End of Section - -



6. IDENTIFY TOOLS/EQUIPMENT NECESSARY TO EXECUTE WORK; ON SITE/ON-HAND: \_\_\_\_\_  
\_\_\_\_\_

7. INSPECTION OF WORK AREA (ASCERTAIN IF PREVIOUS WORK ADEQUATE AND/OR IF AREA PREPARED TO RECEIVE WORK COVERED BY THIS REPORT): \_\_\_\_\_  
\_\_\_\_\_

8. GENERAL COMMENTS ON WORK FEATURE: \_\_\_\_\_ -SCHEDULED START DATE \_\_\_\_\_  
-PROJECTED COMPLETION DATE: \_\_\_\_\_ -MANPOWER: \_\_\_\_\_  
-WORK METHOD/PROCEDURE OR PLANNED PROGRESSION OF WORK FROM ONE AREA TO NEXT: \_\_\_\_\_

-POTENTIAL PROBLEMS/VARIANCES: \_\_\_\_\_  
\_\_\_\_\_

-OUTAGE/UNIQUE REQUIREMENTS OR SPECIAL WORK: \_\_\_\_\_  
\_\_\_\_\_

9. OTHER CONTRACT REQUIREMENTS:  
-INSURANCE: \_\_\_\_\_ -SF 1413: \_\_\_\_\_  
-SALVAGED/TURN-IN MATERIAL OR EQUIP.: \_\_\_\_\_

10. SAFETY:  
-EM 385-1-1 (ISSUE/AVAILABILITY): \_\_\_\_\_  
-SAFETY PLAN/ACTIVITY HAZARD ANALYSIS: \_\_\_\_\_

-GENERAL PROCEDURE OF ACCIDENT REPORTING: \_\_\_\_\_  
\_\_\_\_\_

-CLEANUP/REMOVAL OF TRASH & CONSTRUCTION DEBRIS/FREQUENCY: \_\_\_\_\_  
\_\_\_\_\_

-ASBESTOS/HAZARDOUS WASTE: \_\_\_\_\_  
\_\_\_\_\_

-STOP WORK ORDER: \_\_\_\_\_  
\_\_\_\_\_

11. QC/CONSTRUCTION DEFICIENCIES:  
-STOP WORK: \_\_\_\_\_  
-PROGRESS PAYMENTS: \_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
PRIME QC AUTHORIZED REPRESENTATIVE

# CQC INITIAL PHASE REPORT

CONTRACTOR: \_\_\_\_\_ DATE NOTIF. GOVT: \_\_\_\_\_  
CONTRACT NO.: \_\_\_\_\_ DATE/TIME INITIAL HELD: \_\_\_\_\_  
PROJECT: \_\_\_\_\_

1. DEFINABLE WORK FEATURE & LOCATION: \_\_\_\_\_
2. SUBCONTRACTOR: \_\_\_\_\_
3. DATE PREPARATORY PHASE HELD: \_\_\_\_\_
4. ATTENDANCE ROSTER:

| NAME (PLEASE PRINT) | ORGANIZATION | TELEPHONE |
|---------------------|--------------|-----------|
| _____               | _____        | _____     |
| _____               | _____        | _____     |
| _____               | _____        | _____     |
| _____               | _____        | _____     |
| _____               | _____        | _____     |
| _____               | _____        | _____     |
| _____               | _____        | _____     |

5. RESULTS OF INITIAL:
  - a. COMPLIANCE W/ SPECS (REF. SECTION/PARA) & DWG (REF. SHT. NO.): \_\_\_\_\_
  - b. COMPLIANCE W/ SUBMITTALS (REF TRANS. NOS.): \_\_\_\_\_
  - c. INSPECTION OF SAMPLE WORK (QUALITY OF WORK, USE OF DEFECTIVE OR DAMAGED MATERIAL, OMISSIONS, DIMENSIONS, ETC.): \_\_\_\_\_
  - d. POTENTIAL PROBLEM(S): \_\_\_\_\_
  - e. SAFETY: \_\_\_\_\_

6. QC ACTION(S) TAKEN: \_\_\_\_\_

7. REINSPECTION:
  - a. PROPOSED DATE/TIME: \_\_\_\_\_
  - b. BY PERSONNEL:
    - (1) GEN. CONTR. (PROD.): \_\_\_\_\_ SUBCONTR. REP: \_\_\_\_\_
    - (2) COC REP: \_\_\_\_\_ QA REP: \_\_\_\_\_
  - c. RESULTS OF REINSPECTION: \_\_\_\_\_

PRIME QC AUTHORIZED REPRESENTATIVE

**RECOMMENDED  
DAILY QUALITY CONTROL REPORT  
FORMAT**

|  |  |                      |                          |
|--|--|----------------------|--------------------------|
| <b>1. Contractor:</b>  |  | <b>2. Report No.</b> |                          |
| <b>3. Contract No.:</b>  |  | <b>4. Sheet of</b>   |                          |
| <b>5. Contract Title:</b>  |  | <b>6. Date:</b>      |                          |
| <b>7. Location:</b>  | <b>8. Weather</b>  | Low Temp             | <b>General Condition</b> |
|  |  | High Temp            |                          |
| <b>9. Work performed today (by prime or subcontractor)</b>   |  |                      |                          |
| <b>Prime/Sub</b>   | <b>Description and Location</b>  |                      |                          |
| <p><b>Identify by company name</b></p>   | <p><b>Describe all work performed. It is preferred that this information be provided by Pay Item, then Facility.</b></p> <p><b>Provide detailed locations such as, plaster work in areas/ rooms 101, 102, and 103 at the Library, etc., subbase course layed for Perimeter Road, Station 100 to 250.</b></p> |                      |                          |
| <b>10. Material or Equipment Received Today</b>  |  |                      |                          |
| <p><b>List completely all materials or equipment received today which are to be incorporated into the final product.</b></p> |  |                      |                          |

11. QC Activity

Phase of Inspection, preparatory, initial, follow-up, pre-final, final inspections

| Specs  | Work phase and location of inspection   | Results of inspection  |
|--------|---|--|
| 16A-11 | <p>Record all phases of inspection and all items of work which were inspected by the QC staff.</p> <p>It is preferred that this section be broken down by pay Item then Facility.</p> <p>This section should only address QC activities not all construction activity underway on project.</p> <p>Generally, separate feeder reports will be prepared providing detailed information concerning Preparatory, Initial, Pre-final and Final Inspections.</p> <p>This section should only reference the fact that a Preparatory, Initial, Pre-Final, or Final inspection was held and that the detailed minutes or report is attached.</p> | <p>List the results of your inspections, etc. (Acceptable or Unacceptable). If unacceptable, fully explain deficiency, description and intended corrective action. Identify by paragraph or detail reference which requirement of the contract specifications or drawing detail was not in compliance.</p> |

| 12. Tests Performed  | By Whom                        | Results   |  |        |
|--|--------------------------------|---|--|--------|
|  |                                | Actual  | Required   | Action |
| Summarize all QC testing and sampling performed this date. Give exact locations of all tests performed. Detailed test reports shall be attached to the QC report.  | Contractor or independent lab. | Field results.  | Contract Requirements.                                   |        |
|  |                                | Reference   |  |        |
| 13. Deficiencies Corrected Today   |                                | CQC Report No.  | Non Comply No.   |        |
| Record all deficiencies corrected or being corrected and the original source of deficiency identification.   |                                | If previously identified on a QC report.                                | If Non-Compliance Notice was issued, provide the number. |        |
| 14. QC Inspection for Compliance of Materials Received and Stored  |                                | Submittal No.<br>CQC Report No.   | Approval Date  |        |
| List those materials and equipment received, but not installed and type of inspection by the QC Rep. for contract compliance.<br><br>Identify method and manner of storing materials and equipment.<br><br>Items not requiring a formal approval should still be checked for compliance and this section should indicate that it was inspected and found acceptable.<br><br>Items requiring approval, but not yet approved should include a statement of actions underway to gain the necessary approvals. |                                | List Submittal number used to verify compliance.<br><br>Reviewed by QC. | Date of approved submittal.<br><br>Provide Date.         |        |
| 15. Instructions received from Contracting Officer's Representative.   |                                |   |  |        |
| List all directions or instructions which were received from Government representatives.   |                                |   |  |        |

**16. Safety (Violation observed and corrective action)**

List all safety violations detected by the QC Rep and to whom, by name, it was reported.

List all safety violations which the Government QA Rep identified to QC Reps and what action was taken by the QC Rep. I.E., he notified the Safety Engineer, Foreman, etc.

If the contractor has a Safety Engineer, his report may be attached and referenced in this block. His report should include tool box safety meetings, safety inspections, violations corrected and violations identified by the safety staff or others.

If no Safety Engineer is assigned, the above items must be referred to in this block.

**17. Work Force**

| No.                                      | Trade/Position | Hours                               | On-Site            | Off-Site Fab.   |
|--|----------------|-------------------------------------|--------------------|---|
| How many men? . . . What are their jobs? |                | How many hours did they work today? | Were they on site? | Did they work off site in a fabrication or laydown yard?<br>Not managers working in other offices such as home offices. |
| Total Hours This Date:                   |                |                                     |                    |   |
| Total Cumulative Hours:                  |                |                                     |                    |   |

**18. Equipment on Site**

| Description  | Hours Worked | Hours Idle |
|--|--------------|------------|
| List items such as tower cranes, bulldozers, power plants, transport bases, vans, carryalls, pick-ups, dump trucks, backhoes, etc. |              |            |

**19. Contractor's Certification:** On behalf of the contractor, I certify that this report is complete and correct and all equipment and material used and work performed during this reporting period are in compliance with the contract except as noted.

Chief, Quality Control



| CONCRETE TEST SPECIMENS<br>CC OR QA REPORT  |                     |                                   |                           |   |  |       |
|---|---------------------|-----------------------------------|---------------------------|---|--|-------|
| FIELD DATE (Provide All Data)   |                     |                                   |                           |   |  |       |
| Contract Number   |                     | Contract Title:                   |                           |   | *Location of Placement:  |       |
| Contractor:   |                     |                                   |                           |   |  |       |
| Concrete Supplier   |                     | Approved Mix (PSI & Number)       |                           | Truck No.                               | Delivery Ticket No.  |       |
| Name of Laboratory  |                     | Fld Technician & Certification No |                           |   | <input type="checkbox"/> Quality Control<br><input type="checkbox"/> Quality Assurance |       |
| Date/Time Molded  |                     | Date/Time to Curing               |                           |   | Date/Time Delivered Lab  |       |
| Slump   | Air Content         | Unit Weight-Fresh Concrete        |                           | Temp Fresh Concrete                     |  |       |
| Inches  | %                   | lbs/cu ft                         |                           | °F or °C                                |  |       |
| Specimen Number   | Cylinder            | Beam                              | Size (Dia x Height)       | Unit Wt. Specimen (SSD)                 | TYPE OF TEST   |       |
|   |                     |                                   |                           |   | Comp.  | Flex. |
|   |                     |                                   |                           |   |  |       |
|   |                     |                                   |                           |   |  |       |
|   |                     |                                   |                           |   |  |       |
|   |                     |                                   |                           |   |  |       |
|   |                     |                                   |                           |   |  |       |
|   |                     |                                   |                           |   |  |       |
| LABORATORY TEST DATA (Provide all Data)   |                     |                                   |                           |   |  |       |
| Laboratory  |                     | Date Machine Calibrated           |                           | Technician/Certificate No               |  |       |
| Date Tested   |                     | Age of Test Specimens             |                           | Type of Capping Material<br>(ASTM C617) |  |       |
| Specimen No.  | Size (Dia x Height) | Area (Sq.In.)                     | Maximum Load<br>lbs Force | Strength<br>PSI                         | Type of Fracture ASTM<br>C39, Fig 2  |       |
|   |                     |                                   |                           |   |  |       |
|   |                     |                                   |                           |   |  |       |
|   |                     |                                   |                           |   |  |       |
|   |                     |                                   |                           |   |  |       |
|   |                     |                                   |                           |   |  |       |
|   |                     |                                   |                           |   |  |       |
| REMARKS:  |                     |                                   |                           |   |  |       |
|   |                     |                                   |                           |   |  |       |
|   |                     |                                   |                           |   |  |       |
|   |                     |                                   |                           |   |  |       |
| * Identify exact location where the concrete<br>this sample represents is placed. |                     |                                   |                           | Laboratory Supervisor                   |  | Date  |

SOIL COMPACTION TEST GRAPH

DATE

PROJECT

RESULTS

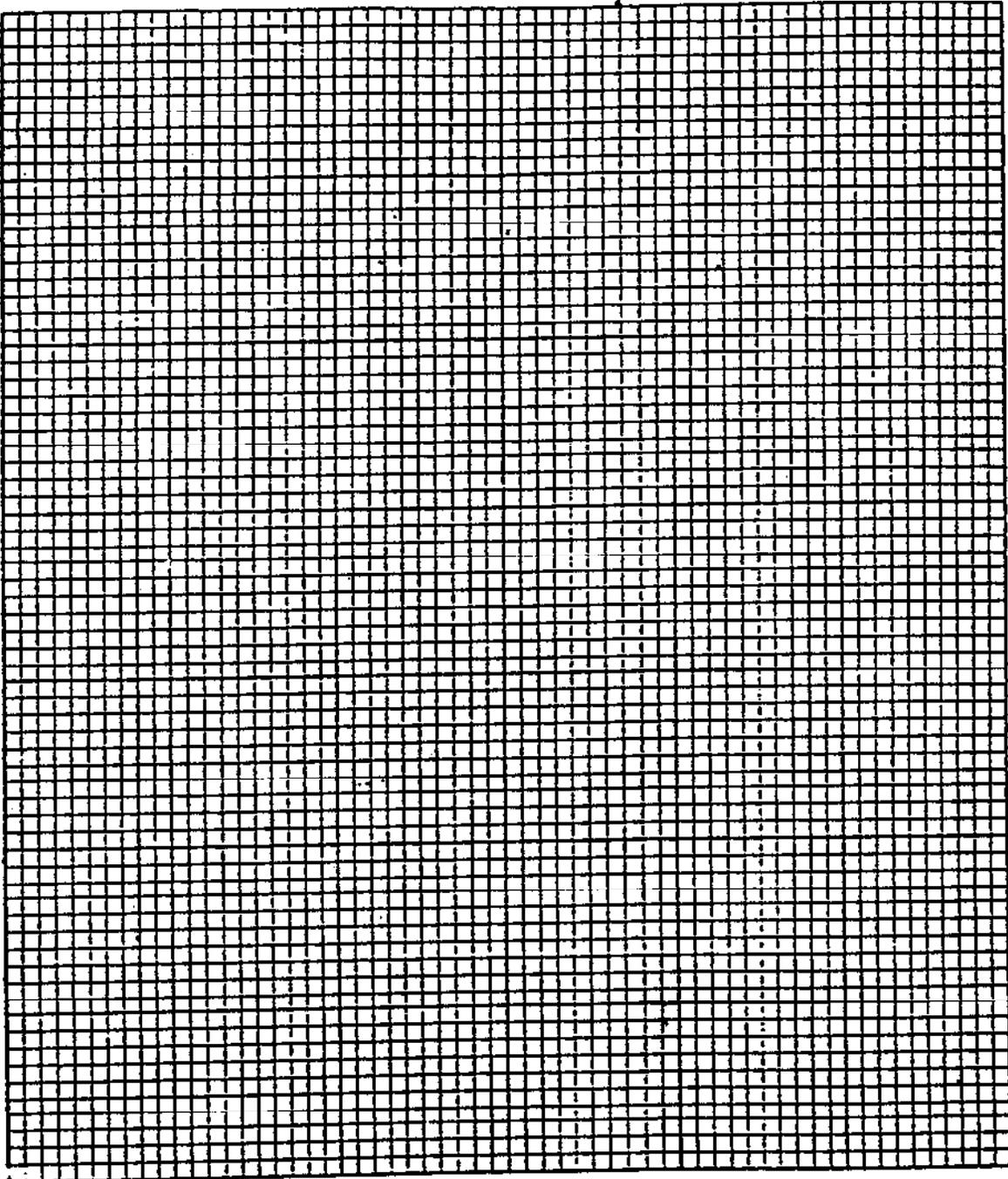
MAXIMUM DRY UNIT WEIGHT

EXCAVATION NUMBER

SAMPLE NUMBER

REMARKS (Use reverse side, if more space is needed)

OPTIMUM MOISTURE (Water) CONTENT



DRY UNIT WEIGHT,  $\gamma_d$  (pounds per cubic foot)

MOISTURE (Water) CONTENT, w (per cent of dry weight)

TECHNICIAN (Signature)

PLOTTED BY (Signature)

CHECKED BY (Signature)

# SOIL COMPACTION TEST DATA

| PROJECT  |                 |                           |                             | EXCAVATION NUMBER               | SAMPLE NUMBER    | DATE                  |
|--|-----------------|---------------------------|-----------------------------|---------------------------------|------------------|-----------------------|
| CONVERSION FACTORS   |                 | NUMBER OF BLOWS PER LAYER | WEIGHT OF TAMPER            | HEIGHT OF DROP                  | NUMBER OF LAYERS | MAXIMUM PARTICLE SIZE |
| 1728 cu. in. per cu. ft.<br>453.6 gm per lb.   |                 | DIAMETER OF MOLD (in.)    | WEIGHT OF SOIL SAMPLE (in.) | VOLUME OF SOIL SAMPLE (cu. ft.) |                  |                       |
| SPECIFIC GRAVITY   |                 |                           |                             |                                 |                  |                       |
| UNITS  |                 |                           |                             |                                 |                  |                       |
| RUN NUMBER   |                 |                           |                             |                                 |                  |                       |
| WEIGHT OF WET SOIL $\div$ MOLD   |                 |                           |                             |                                 |                  |                       |
| WEIGHT OF MOLD   |                 |                           |                             |                                 |                  |                       |
| WEIGHT OF WET SOIL   |                 |                           |                             |                                 |                  |                       |
| WET UNIT WEIGHT, $\gamma = \frac{\text{Weight of wet soil (lb.)}}{\text{Vol. of soil sample (cu. ft.)}}$ | LB. PER CU. FT. |                           |                             |                                 |                  |                       |
| TARE NUMBER  |                 |                           |                             |                                 |                  |                       |
| A. WEIGHT OF WET SOIL $\div$ TARE  |                 |                           |                             |                                 |                  |                       |
| B. WEIGHT OF DRY SOIL $\div$ TARE  |                 |                           |                             |                                 |                  |                       |
| C. WEIGHT OF WATER, $W_w$ (A. $\div$ B.)   |                 |                           |                             |                                 |                  |                       |
| D. WEIGHT OF TARE  |                 |                           |                             |                                 |                  |                       |
| E. WEIGHT OF DRY SOIL, $W_s$ (B. $\div$ D.)  |                 |                           |                             |                                 |                  |                       |
| WATER CONTENT, $w = (\frac{W_w}{W_s} \times 100)$  | PERCENT         |                           |                             |                                 |                  |                       |
| AVERAGE WATER CONTENT  | PERCENT         |                           |                             |                                 |                  |                       |
| DRY UNIT WEIGHT, $\gamma_d = (\frac{\gamma}{1 + w/100})$   | LB. PER CU. FT. |                           |                             |                                 |                  |                       |
| TECHNICIAN (Signature)   |                 | COMPUTED BY (Signature)   |                             | CHECKED BY (Signature)          |                  |                       |

I N S T R U C T I O N S

1. This form is to be filled out for all structural concrete placement by the Quality Control Inspector and submitted with the corresponding Daily Quality Control Report to the Area, Resident or Project Office as appropriate.
2. All items, both lettered and numbered, are to be initialed by the inspector actually making the inspection. The numbered items (1, 2, 3, etc.) are to be used as a partial check list by the inspector before he initials the lettered items (A, B, C, D, E, F).
3. Any item on the placing record not applicable to the particular placement should be indicated with "N/A" in the "CHECKED BY" column.
4. Particular care should be paid to the location and size of imbedded items to assure that improper location and/or oversize will not weaken the structure.

★ ★ ★ ★ ★ ★ ★ ★ ★ ★

REMARKS:

**UNIT WEIGHT DETERMINATION  
"VOLUME OF HOLE" METHODS**

DATE

PROJECT

TEST SITE

SAMPLE NUMBER

ADDITIONAL SPECIFICATIONS

CONVERSION FACTORS

1 in. = 2.54 cm.

1 gm./cc. or 62.4 lb./cu. ft. = Unit weight of water

1 lb. = 453.6 gm.

1 cu. ft. = 1728 cu. in.

CALIBRATION OF STANDARD MATERIAL

STANDARD MATERIAL (Check one)

SAND

OIL

OTHER (Specify)

APPARATUS OR TARE NUMBER

UNITS

1. WEIGHT OF APPARATUS OR TARE FILLED

2. WEIGHT OF APPARATUS OR TARE EMPTY

3. WEIGHT OF MATERIAL (1.-2.)

4. VOLUME OF APPARATUS OR TARE

5. UNIT WEIGHT OF MATERIAL ( $\frac{3}{4}$ )

6. AVERAGE UNIT WEIGHT OF MATERIAL

lb./cu. ft.

CALIBRATION OF APPARATUS

TEMPLATE NUMBER

CONE NUMBER

7. INITIAL WEIGHT OF APPARATUS + SAND

UNITS

8. FINAL WEIGHT OF APPARATUS + SAND

9. WEIGHT OF SAND IN TEMPLATE AND/OR CONE

"VOLUME OF HOLE"

UNITS

10. INITIAL WEIGHT OF APPARATUS + MATERIAL

11. FINAL WEIGHT OF APPARATUS + MATERIAL

12. WEIGHT OF MATERIAL RELEASED (10.-11.)

13. WEIGHT OF MATERIAL IN HOLE  
(For oil, same as 12. For sand, 12.-9.)

14. VOLUME OF HOLE ( $\frac{13}{5}$ )

**WATER CONTENT DETERMINATION**

| TARE NUMBER                                      | UNITS   |  |  |  |  |  |  |
|--|---------|--|--|--|--|--|--|
|  |         |  |  |  |  |  |  |
| 15. WEIGHT WET SOIL & TARE                       |         |  |  |  |  |  |  |
| 16. WEIGHT DRY SOIL & TARE                       |         |  |  |  |  |  |  |
| 17. WEIGHT WATER (15.-16.)                       |         |  |  |  |  |  |  |
| 18. WEIGHT TARE                                  |         |  |  |  |  |  |  |
| 19. WEIGHT DRY SOIL (16.-18.)                    |         |  |  |  |  |  |  |
| 20. WATER CONTENT ( $\frac{17}{19} \times 100$ ) |         |  |  |  |  |  |  |
| 21. AVERAGE WATER CONTENT                        | PERCENT |  |  |  |  |  |  |

**UNIT WEIGHT DETERMINATION**

| TARE NUMBER  | UNITS       |  |  |  |
|--|-------------|--|--|--|
|  |             |  |  |  |
| 22. WEIGHT WET SOIL & TARE                             |             |  |  |  |
| 23. WEIGHT TARE  |             |  |  |  |
| 24. WEIGHT WET SOIL (22.-23.)                          |             |  |  |  |
| 25. WET UNIT WEIGHT (24./14.)                          | LB./CU. FT. |  |  |  |
| 26. DRY UNIT WEIGHT (25. $\times \frac{100}{100+21}$ ) | LB./CU. FT. |  |  |  |

REMARKS

TECHNICIAN (Signature)

COMPUTED BY (Signature)

CHECKED BY (Signature)

DIVISION 2  
SITE WORK  
SECTION 02050  
DEMOLITION

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

The work includes demolition or removal of all construction indicated or specified. All materials resulting from demolition work, except as indicated or specified otherwise, shall become the property of the Contractor and shall be removed from the limits of Government property. Rubbish and debris shall be removed from Government property daily unless otherwise directed so as to not allow accumulation inside or outside the building. Materials that cannot be removed daily shall be stored in areas specified by the Contracting Officer. Demolish and remove materials containing asbestos in accordance with Section 02080, "Removal and Disposal of Asbestos Materials."

1.2 SUBMITTALS

The procedures proposed for the accomplishment or removal and demolition work shall be submitted for approval. The procedures shall provide for safe conduct of the work, protection of property which is to remain undisturbed, coordination with other work in progress. The procedures shall include a detailed description of the methods and equipment to be used for each operation, and the sequence of operations.

1.3 REGULATORY REQUIREMENTS

Comply with federal, state, and local hauling and disposal regulations.

1.4 DUST CONTROL

The amount of dust resulting from demolition shall be controlled to prevent the spread of dust to occupied portions of the building 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 ice, flooding and pollution.

Title to all materials and equipment to be demolished or removed 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.

3.2.2 Disposal of Asbestos: As specified in Section 02080, "Removal and Disposal of Asbestos Materials."

### 3.3 CLEAN-UP

#### 3.3.1 Debris and Rubbish

Debris and rubbish shall be removed from the site daily. Debris and rubbish shall not be allowed to accumulate in buildings or on site.

#### 3.3.2 Debris Control

Debris shall be removed and transported in a manner as to prevent spillage on streets or adjacent areas.

#### 3.3.3 Regulations

Local regulations regarding hauling and disposal apply.

## SECTION 02090

### REMOVAL AND DISPOSAL OF LEAD-CONTAINING PAINT

#### 1.1 REFERENCES

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

##### AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

|            |  |
|------------|--|
| ANSI Z9.2  | 1979 Fundamentals Governing the Design and Operation of Local Exhaust Systems. |
| ANSI Z88.2 | 1980 Practices for Respiratory Protection.                                     |

##### CODE OF FEDERAL REGULATIONS (CFR)

|                             |   |
|-----------------------------|---|
| 29 CFR 1910.134             | 1988 Respiratory Protection               |
| 29 CFR 1910.1025            | 1988 Lead                                 |
| 29 CFR 1910.1200            | 1988 Hazard Communication                 |
| 29 CFR 1926.55<br>and Mists | Gases, Vapors, Fumes, Ducts,<br>and Mists |
| 29 CFR 1926.57              | Ventilation                               |

##### UNDERWRITERS LABORATORIES INC. (UL)

|        |  |
|--------|--|
| UL 586 | 1990 High-Efficiency, Particulate, Air Filter Units, Seventh Edition |
|--------|--|

#### 1.2 DEFINITIONS

##### 1.2.1 Action Level

Employee exposure, without regard to use of respirators, to an airborne concentration of lead of 30 micrograms per cubic meter of air averaged over an 8-hour period. As used in this section, "30 micrograms per cubic meter of air" refers to the action level.

### 1.2.2 Area Monitoring

Sampling of lead concentrations within the lead control area and inside the physical boundaries which is representative of the airborne lead concentrations which may reach the breathing zone of personnel potentially exposed to lead.

### 1.2.3 Physical Boundary

Area physically roped or partitioned off around an enclosed lead control area to limit unauthorized entry of personnel. As used in this section, "inside boundary" shall mean the same as "outside lead control area."

### 1.2.4 Certified Industrial Hygienist (CIH)

As used in this section, refers to an Industrial Hygienist employed by the Contractor and is qualified by the American Board of Industrial Hygiene or its equivalent in comprehensive practice.

### 1.2.5 Change Rooms and Shower Facilities

Rooms within the designated physical boundary around the lead control area equipped with separate storage facilities for clean protective work clothing and equipment and for street clothes which prevent cross-contamination.

### 1.2.6 Decontamination Room

Room for removal of contaminated personal protective equipment (PPE).

### 1.2.7 Eight-Hour Time Weighted Average (TWA)

Airborne concentration of lead averaged over an 8-hour workday to which an employee is exposed.

### 1.2.8 Lead

Metallic lead, inorganic lead compounds, and organic lead soaps. Excluded from this definition are other organic lead compounds.

### 1.2.9 Lead Control Area

An enclosed area or structure with full containment to prevent the spread of lead dust, paint chips, or debris of lead-containing paint removal operations. The lead control area is isolated by physical boundaries to prevent unauthorized entry of personnel.

### 1.2.10 Lead Permissible Exposure Limit (PEL)

Fifty micrograms per cubic meter of air as an 8-hour time weighted average as determined by 29 CFR 1910.1025. If an employee is exposed for more than 8 hours in a work day, the PEL shall be determined by the following formula:

PEL (micrograms/cubic meter of air) =  $400 / \text{No. hrs worked per day}$

### 1.2.11 Personal Monitoring

Sampling of lead concentrations within the breathing zone of an employee to determine the 8-hour time weighted average concentration in accordance with 29 CFR 1910.1025. Samples shall be representative of the employee's work tasks. Breathing zone shall be considered an area within a hemisphere, forward of the shoulders, with a radius of 6 to 9 inches and the center at the nose or mouth of an employee.

## 1.3 QUALITY ASSURANCE

### 1.3.1 Medical Examinations

Before exposure to lead contaminated dust, provide workers with a comprehensive medical examination as required by 29 CFR 1910.1025 and 29 CFR 1910.1200. The examination will not be required if adequate records show that employees have been examined as required by 29 CFR 1910.1025 within the last year.

### 1.3.2 CIH Responsibilities

- a. Certify training.
- b. Review and approve lead-containing paint removal plan for conformance to the applicable referenced standards.
- c. Inspect lead-containing paint removal work for conformance with the approved plan.
- d. Direct monitoring.
- e. Ensure work is performed in strict accordance with specifications at all times.
- f. Ensure hazardous exposure to personnel and to the environment are adequately controlled at all times.

### 1.3.3 Training

Train each employee performing paint removal, disposal, and air sampling operations prior to the time of initial job assignment, in accordance with 29 CFR 1910.1025.

#### 1.3.3.1 Training Certification

Submit certificates signed and dated by the CIH and by each employee stating that the employee has received training.

#### 1.3.4 Respiratory Protection Program

- a. Furnish each employee required to wear a negative pressure respirator or other appropriate type with a respirator fit test at the time of initial fitting as required by 29 CFR 1910.1025.
- b. Establish and implement a respiratory protection program as required by ANSI Z88.2, 29 CFR 1910.134, 29 CFR 1910.1025, and 29 CFR 1926.55.

#### 1.3.5 Hazard Communication Program

Establish and implement a Hazard Communication Program as required by 29 CFR 1910.1200.

#### 1.3.6 Safety and Health Compliance

In addition to the detailed requirements of this specification, comply with laws, ordinances, rules, and regulations of federal, state, and local authorities regarding removing, handling, storing, transporting, and disposing of lead waste materials. Comply with the applicable requirements of the current issue of 29 CFR 1910.1025. Submit matters regarding interpretation of standards to the Contracting Officer for resolution before starting work. Where specification requirements and the referenced documents vary, the most stringent requirement shall apply.

#### 1.3.7 Pre-Construction Conference

Along with the CIH, meet with the Contracting Officer to discuss in detail the lead-containing paint removal, including work procedures and precautions for the work plan.

### 1.4 SUBMITTALS

Submit the following to the Contracting Officer in accordance with Section 01300, "Submittals."

#### 1.4.1 SD-02, Manufacturer's Catalog Data

- a. Respirators

#### 1.4.2 SD-08, Statements

- a. Qualifications of CIH
- b. Lead-containing paint removal plan
- c. Rental equipment notification
- d. Testing laboratory qualifications
- e. Respiratory protection program
- f. Hazard communication program

#### 1.4.3 Qualifications of CIH

Submit name, address, and telephone number of the CIH selected to perform responsibilities in paragraph entitled "CIH Responsibilities." Provide previous experience of the CIH. Submit proper documentation that the Industrial Hygienist is qualified by the American Board of Industrial Hygiene in comprehensive practice, including certification number and date of certification/recertification, or equivalent.

#### 1.4.4 Lead-Containing Paint Removal Plan

Submit a detailed job-specific plan of the work procedures to be used in the removal of lead-containing paint. The plan shall include a sketch showing the location, size, and details of lead control areas, location and details of decontamination rooms, change rooms, shower facilities, and mechanical ventilation system. Include in the plan, eating, drinking, smoking and restroom procedures, interface of trades, sequencing of lead related work, collected wastewater and paint debris disposal plan, respirators, protective equipment, and a detailed description of the method of containment of the operation to ensure that airborne lead concentrations of 30 micrograms per cubic meter of air are not exceeded outside of the lead control area. Include training and strategy. Obtain approval of the plan prior to the start of paint removal work.

#### 1.4.5 Records

- a. Certification of medical examinations
- b. Employee training certification

## 1.5 REMOVAL

### 1.5.1 Title to Materials

Materials resulting from demolition work, except as specified otherwise, shall become the property of the Contractor and shall be disposed of in accordance with Section 02050, "Demolition and Removal," except as specified herein.

## 1.6 EQUIPMENT

Furnish the Contracting Officer with two complete sets of personal protective equipment (PPE) daily, as required herein, for entry into and inspection of the paint removal work within the lead controlled area. Personal protective equipment shall include fitted respirators and disposable whole body covering, including appropriate foot, head, and hand protection. PPE shall remain the property of the Contractor.

### 1.6.1 Respirators

Furnish appropriate respirators approved by the NIOSH, Department of Health and Human Service, for use in atmospheres containing lead dust. Respirators shall be half mask dual HEPA filter type and shall comply with the requirements of 29 CFR 1910.1025.

### 1.6.2 Special Protective Clothing

Furnish personnel who will be exposed to lead contaminated dust with appropriate disposable whole body clothing, head covering, gloves, and foot coverings. Furnish appropriate disposable plastic or rubber gloves to protect hands. Reduce the level of protection only after obtaining approval from the CIH.

### 1.6.3 Rental Equipment Notification

If rental equipment is to be used during lead-containing paint handling and disposal, notify the rental agency in writing concerning the intended use of the equipment. Furnish a copy of the written notification to the Contracting Officer.

## PART 2 PRODUCTS

### 2.1 PAINT REMOVAL PRODUCTS

Submit applicable Material Safety Data Sheets for paint removal products used in paint removal work. Use the least toxic product suitable for the job.

## PART 3 EXECUTION

### 3.1 PROTECTION

#### 3.1.1 Authorization

The contractor shall not start any paint removal work until the Contracting Officer provides the authorization.

#### 3.1.2 Lead Control Area Requirements

- a. Establish a lead control area by completely enclosing with containment screens the area or structure where lead-containing paint removal operations will be performed.
- b. Perform removal operations by the use of at least one change room.

#### 3.1.3 Protection of Existing Work to Remain

Perform paint removal work without damage or contamination of adjacent areas. Where existing work is damaged or contaminated, restore work to its original condition or better.

#### 3.1.4 Boundary Requirements

Provide physical boundaries around the lead control area by roping off the area and providing curtains, portable partitions or other enclosures to ensure that airborne concentrations of lead will not reach 30 micrograms per cubic meter of air outside of the lead control area.

#### 3.1.5 Heating, Ventilating and Air Conditioning (HVAC) Systems

Shut down, lock out, and isolate HVAC systems that supply, exhaust, or pass through the lead control areas. Seal intake and exhaust vents in the lead control area with 6-mil plastic sheet and tape. Seal seams in HVAC components that pass through the lead control area.

#### 3.1.6 Change Room and Shower Facilities

Provide clean change rooms and shower facilities within the physical boundary around the designated lead control area in accordance with requirements of 29 CFR 1910.1025.

### 3.1.7 Mechanical Ventilation System

- a. Use adequate ventilation to control personnel exposure to lead in accordance with 29 CFR 1926.57.
- b. To the extent feasible, use fixed local exhaust ventilation connected to HEPA filters or other collection systems, approved by the industrial hygienist. Local exhaust ventilation systems shall be designed, constructed, installed, and maintained in accordance with ANSI Z9.2.

### 3.1.8 Personnel Protection

Personnel shall wear and use protective clothing and equipment as specified herein. Eating, smoking, or drinking is not permitted in the lead control area. No one will be permitted in the lead control area unless they have been given appropriate training and protective equipment.

### 3.1.9 Warning Signs

Provide warning signs at approaches to lead control areas. Locate signs at such a distance that personnel may read the sign and take the necessary precautions before entering the area. Signs shall comply with the requirements of 29 CFR 1910.1025.

## 3.2 WORK PROCEDURES

Perform removal of lead-containing paint in accordance with approved lead-containing paint removal plan. Use procedures and equipment required to limit occupational and environmental exposure to lead when lead-containing paint is removed in accordance with 29 CFR 1910.1025 except as specified herein. Dispose of removed paint chips and associated waste in compliance with local requirements.

### 3.2.1 Personnel Exiting Procedures

Whenever personnel exit the lead-controlled area, they shall perform the following procedures and shall not leave the work place wearing any clothing or equipment worn during the work day:

- a. Remove protective clothing in the decontamination room, and place them in an approved impermeable disposal bag.
- b. Shower
- c. Change to clean clothes prior to leaving the physical boundary designated around the lead-contaminated job site.

### 3.2.2 Monitoring

Monitoring of airborne concentrations of lead shall be in accordance with 29 CFR 1910.1025 and as specified herein. Air monitoring, testing, and reporting shall be performed by a representative of the Contracting Officer.

#### 3.2.2.1 Monitoring During Paint Removal Work

Perform personal monitoring during the entire paint removal operation. Sufficient area monitoring shall be conducted at the physical boundary to ensure unprotected personnel are not exposed above 30 micrograms per cubic meter of air at all times. If the outside boundary lead levels are at or exceed 30 micrograms per cubic meter of air, work shall be stopped and the CIH shall immediately correct the condition(s) causing the increased levels and notify the Contracting Officer immediately. The CIH shall review the sampling data collected on that day to determine if condition(s) requires any further change in work methods. Removal work shall resume when approval is given by the CIH. The Contractor shall control the lead level outside of the work boundary to less than 30 micrograms per cubic meter of air at all times. If adjacent areas are contaminated, clean and visually inspect contaminated areas. The CIH shall certify that the area has been cleaned of lead contamination.

### 3.3 LEAD-CONTAINING PAINT REMOVAL

Manual or power sanding of interior and exterior surfaces is not permitted unless specifically authorized by the Contracting Officer. Remove paint within the area designated on the drawings in order to completely expose the substrate. Take whatever precautions are necessary to minimize damage to the underlying substrate.

#### 3.3.1 Outdoor Lead Paint Removal

##### 3.3.1.1 Selection

Select paint removal processes to minimize contamination of work areas with lead-contaminated dust or other lead-contaminated debris/waste. Wet down areas by water misting before sanding to reduce excessive amounts of fine dust from being generated. This paint removal process should be described in the lead-containing paint removal plan. Perform manual sanding and scraping to the maximum extent feasible.

### 3.4 SURFACE PREPARATIONS

Avoid flash rusting or other deterioration of the substrate. Provide surface preparations for painting in accordance with Section 09900, "Painting."

### 3.5 CLEANUP AND DISPOSAL

#### 3.5.1 Cleanup

Maintain surfaces of the lead control area free of accumulations of paint chips and dust. Restrict the spread of dust and debris; keep waste from being distributed over the work area. Do not dry sweep or use compressed air to clean up the area. At the end of each shift and when the paint removal operation has been completed, clean area of visible lead paint contamination by damp sweeping.

#### 3.5.2 Certification

The CIH shall certify in writing, that inside and outside the lead control area, air monitoring samples are less than 30 micrograms per cubic meter of air, the respiratory protection for the employees was adequate, the work procedures were performed in accordance with 29CFR 1910.1025, and that there were no visible accumulations of lead-contaminated paint and dust on the worksite. Do not remove the lead control area or roped-off boundary and warning signs prior to the Contracting Officer's receipt of the CIH's certification. Reclean areas showing dust or residual paint chips.

#### 3.5.3 Disposal

- a. Collect lead-contaminated waste, scrap, debris, bags, containers, equipment, and lead-contaminated clothing which may produce airborne concentrations of lead particles. Label the containers in accordance with 29 CFR 1910.1025. Dispose of lead-contaminated waste material at a disposal facility off Government property.
- b. Store waste materials in approved containers. Properly label each container to identify the type of waste and the date the container was filled. The Contracting Officer or an authorized representative will assign an area for interim storage of waste-containing containers. Do not store hazardous waste containers in interim storage longer than 90 calendar days from the date affixed to each container.
- c. Handle, store, transport, and dispose lead or lead-contaminated waste in accordance with the local government regulations.

## SECTION 07600

### DOWNSPOUT

#### PART 1 GENERAL

##### 1.1 APPLICABLE PUBLICATIONS:

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.

##### 1.1.1 Japanese Industrial Standards (JIS):

|           |  |
|-----------|--|
| A 5554-90 | Stainless Steel Nails                                      |
| B 1115-88 | Slotted Head Tapping Screws                                |
| B 1135-74 | Slotted Head Wood Screws                                   |
| K 6739-77 | Unplasticized Polyvinyl Chloride Pipe Fitting<br>for Drain |
| K 6741-84 | Unplasticized Polyvinyl Chloride (PVC) Pipes               |

##### 1.2 SUBMITTALS

1.2.1 Manufacturer's Data: Catalog cuts, technical data sheets and descriptive literatures for PVC downspouts including fittings.

##### 1.3 DELIVERY, HANDLING, AND STORAGE

Package and protect materials during shipment. Uncrate and inspect materials for damage, dampness, and wet-storage stains upon delivery to the job site. Remove from the site and replace damaged materials that cannot be restored to like-new condition. Store materials in dry, weather-tight, ventilated areas until immediately before installation.

#### PART 2 PRODUCTS

##### 2.1 MATERIALS

2.1.1 Downspouts: JIS K 6741, Type VP.

2.1.2 Pipe Fittings for Downspout: JIS K 6739.

2.1.3 Adhesive: PVC downspout manufacturer's recommended product.

2.1.4 Leader Strap: Manufacture-supplied of galvanized steel leader strap.

2.1.5 Nails: JIS A 5554.

2.1.6 Tapping Screws: JIS B 1115, stainless steel.

2.1.7 Wood Screws: JIS B 1135.

2.1.8.1 Splash Blocks: Provide at outlets of downspouts emptying at grade. Splash blocks shall be precast concrete or cast-in-place concrete with smooth-finished countersunk dishes sloped to drain away from the building. Concrete shall have a 28-day compressive strength of 210 kg/sq.cm. Provide compacted earth base.

2.1.8.2 Size: 200(w) x 300(L) x 100 (H).

### PART 3 EXECUTION

3.1 INSTALLATION: Fasten to the walls at top, bottom, and at an intermediate point not to exceed 1.2m on centers with leader straps or concealed rack-and-pin type fasteners. Provide splash blocks with elbow-type fittings at bottom terminations.

3.2 CLEANING: Clean joints and remove excessive adhesive.

## SECTION 09151

### WALL REPAIRS

#### PART 1 GENERAL

##### 1.1 APPLICABLE PUBLICATIONS:

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.

##### 1.1.1 JAPANESE INDUSTRIAL STANDARDS (JIS)

A 5758-86            Sealing Compounds for Sealing and Glazing in Buildings.

A 6916-83            Cement Filling Compound for Surface Preparation.

##### 1.2 SUBMITTALS

1.2.1 Manufacturer's Descriptive Data: Submit complete descriptive data for filling compound. Data shall state conformance to specified requirements and shall include application instructions.

1.3 DELIVERY AND STORAGE: Manufactured materials shall be delivered in the manufacturer's original unbroken package or containers which are labeled plainly with the manufacturer's name and brands. Keep cementitious materials dry until ready to be used; store them off the ground under cover and away from sweating walls and other damp surfaces.

##### 1.4 ENVIRONMENTAL CONDITIONS

Maintain an ambient temperature of not less than 5 degrees C where resin mortar and filling compound work is performed for not less than 48 hours prior to and during application, and during the curing operation.

1.4.2 Sealant: The ambient temperature shall be within the limits of 5 and 37 degrees C when the sealant is applied.

#### PART 2 PRODUCTS

2.1 MATERIALS shall conform to the referenced specifications and standards, and other requirements as specified herein.

2.1.1 Sealant: JIS A 5758, Type PU-1, or PU-2.

2.1.2 Primer: Use a non-staining, quick-drying type and consistency recommended by the sealant-manufacturer for the particular application

2.1.3 Acrylic: Manufacture-supplied of cation polymer type acrylic.

2.1.4 Filling Compound: JIS A 6916

2.1.5 Adhesive for Filling Compound: As recommended by the filling compound manufacturer.

### PART 3 EXECUTION

#### 3.1 CRACK REPAIRS:

3.1.1 Preparation of Surfaces: Cut the concrete surfaces of cracks in U-shape groove while constantly wetting the surface with water. The inner surfaces of U-shape groove shall be clean, dry to the touch, and free from moisture, grease, oil, or other foreign matter that would tend to destroy or impair adhesion.

##### 3.1.2 Application of Sealant:

3.1.2.1 Primer: Apply primer in accordance with the sealant manufacturer's instruction.

3.1.2.2 Sealant: Apply sealant in accordance with the manufacturer's instruction and as indicated. Force the compound into inmost part of the U-shape groove with sufficient pressure. Compound shall be uniformly smooth and free of wrinkles.

3.1.3 Application of Acrylic Resin Mortar: Apply acrylic resin mortar in accordance with the manufacturer's instruction and sand smooth.

#### 3.2 AUTOCLAVED LIGHTWEIGHT CONCRETE (ALC) REPAIRS:

3.2.1 Preparation of Surfaces: Surfaces shall be cleaned of all projections, dust, loose particles, grease, and other foreign matters, and shall be sufficiently rough to provide a strong mechanical bond.

3.2.2 Application of Cement Mortar: Application and curing of filling compound shall be in accordance with the manufacturer's instructions. Before filling compound work is started, the surfaces shall be primed with adhesive. Filling compound shall not be applied to surfaces containing frost.

SECTION 09250

GYP SUM WALLBOARD

PART 1 - GENERAL

1.1 APPLICABLE PUBLICATIONS: 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.

1.1.1 Japanese Industrial Standards (JIS):

|           |   |
|-----------|---|
| A 5552-88 | Nails for Gypsum Boards                     |
| A 6901-83 | Gypsum Boards                               |
| A 6914-85 | Joint Treatment Materials for Gypsum Boards |
| B 1125-90 | Self Drilling Tapping Screws                |

1.1.2 Japanese Architectural Standard Specification:

|            |               |
|------------|---------------|
| JASS 26-91 | Interior Work |
|------------|---------------|

1.2 SUBMITTALS:

1.2.1 Catalog Data: Submit catalog information for Gypsum wallboard, fastener, and joint treatment material.

1.3 DELIVERY, HANDLING, AND STORAGE:

1.3.1 Delivery: Deliver materials in the original packages, containers, or bundles with each bearing the brand name, applicable standard designation, and name of manufacturer, or supplier.

1.3.2 Handling: Neatly stack gypsum board flat to prevent sagging or damage to the edges, ends, and surfaces.

1.3.3 Storage: Keep materials dry, storing inside a sheltered building. When necessary to store gypsum board outside, store off the ground, properly supported on a level platform, and protected from direct exposure to rain, snow, sunlight, and other extreme weather conditions. Provide adequate ventilation to prevent condensation.

1.4 ENVIRONMENTAL CONDITIONS:

1.4.1 Temperature: Maintain a uniform temperature of not less than 10 degrees C (50 degrees F) in the structure at least 48 hours prior to, during, and following the application of gypsum board and joint treatment materials.

## PART 2 - PRODUCTS

### 2.1 MATERIALS:

2.1.1 Gypsum Boards: JIS A 6901, with tapered edges. Free from asbestos containing materials.

2.1.2 Joint Treatment Materials: JIS A 6914.

2.1.2.1 Embedding Compound: Specifically formulated and manufactured for use in embedding tape at gypsum board joints and completely compatible with tape, substrate and fastener.

2.1.2.2 Finishing or Topping Compound: Specifically formulated and manufactured for use as a finishing compound.

2.1.2.3 All-Purpose Compound: Specifically formulated and manufactured to serve as both a taping and a finishing compound and compatible with tape, substrate and fasteners.

2.1.2.4 Joint Tape: Cross-laminated, tapered edge, reinforced paper, or special tape recommended by the manufacturer.

2.1.3 Nails: JIS A 5552, Type GN.

2.1.4 Tapping Screws: JIS B 1125 and shall have factory coated heads of color to match boards.

2.1.5 Water: Clean, fresh, and potable.

## PART 3 - EXECUTION

3.1 PREPARATION: Cut damaged gypsum wallboard to expose existing framing or furring members.

3.2 APPLICATION OF GYPSUM BOARD: Apply gypsum board to framing or furring members in accordance with JASS 26 and the requirements specified herein. Cut out gypsum board as required to make neat close joints around openings. Apply gypsum board in moderate contact with adjoining boards; do not force in place. Neatly fit abutting end and edge joints.

3.2.1 Fastening: Nailing/screwing shall begin at the top center of the panel and proceed outward to the edges or ends, with the top nailing/screwing completed before proceeding to the next members. Nails/screws shall be spaced no more than 200 mm on centers.

3.2.2 Joint Treatment shall be provided as specified hereinafter.

3.2.2.1 First Step: Joint compound shall be applied to the edges of the panels using moderate pressure. Reinforcing tape shall be applied over the full length of the joint and embedded in the compound by using moderate pressure. Excess compound shall be removed, after which the tape shall be given a thin coating of compound. End joints shall be filled with the compound and taped in a similar manner. The compound shall be sanded as necessary to remove high spots.

3.2.2.2 Second Step: After the first coating has dried, a second coating of joint compound shall be applied to the joints and shall be feathered out as far as necessary to obtain a smooth surface.

3.2.2.3 Third Step: After the second coating has dried, a third coating shall be applied very thin to a smooth surface and feathered out 150 to 200 mm for tapered edge joints and 300 mm to 400 mm for cut end joints on both sides of the joint. The joint shall be sanded lightly when dry with 2/0 sandpaper to leave a smooth, flush surface. Care shall be taken not to scuff the paper surface of the gypsum board when sandpapering the compound.

3.2.3 Nailing/screwing Depression Treatment: Boards shall fit tightly against the supporting framework before concealing the nailing/screwing depressions. The depressions shall be filled with at least 3 coats of joint cement, and each coating shall be allowed to dry before the succeeding coating is applied. Where necessary, the last coating shall be sanded lightly with 2/0 sandpaper to leave a smooth finish flush with the paper of the wallboard.

SECTION 09251

GYPSUM SLAG BOARD

PART 1 - GENERAL

1.1 APPLICABLE PUBLICATIONS: 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.

1.1.1 Japanese Industrial Standards (JIS):

|           |                              |
|-----------|------------------------------|
| A 5429-83 | Gypsum Slag Cement Boards    |
| B 1125-90 | Self Drilling Tapping Screws |

1.1.2 Japanese Architectural Standard Specification:

|           |               |
|-----------|---------------|
| JAS 26-91 | Interior Work |
|-----------|---------------|

1.2 SUBMITTALS:

1.2.1 Catalog Data: Submit catalog information on gypsum slag board.

1.3 DELIVERY, HANDLING, AND STORAGE:

1.3.1 Delivery: Deliver materials in the original packages, containers, or bundles with each bearing the brand name, applicable standard designation, and name of manufacturer, or supplier.

1.3.2 Handling: Neatly stack gypsum slag board flat to prevent sagging or damage to the edges, ends, and surfaces.

1.3.3 Storage: Keep materials dry by storing inside a sheltered building. When necessary to store gypsum slag board outside, store off the ground, properly supported on a level platform, and protected from direct exposure to rain, snow, sunlight, and other extreme weather conditions. Provide adequate ventilation to prevent condensation.

PART 2 - PRODUCTS

2.1 MATERIALS: Shall conform to the respective specifications and standards, and to the requirements specified herein. Gypsum slag board shall be manufactured from asbestos-free materials.

2.1.1 Gypsum Slag Boards: JIS A 5429. 5 mm in thickness.

2.1.2 Tapping Screws: JIS B 1125, Galvanized steel.

PART 3 - EXECUTION

3.1 APPLICATION OF GYPSUM SLAG BOARD: Apply gypsum slag board to furring members in accordance with JASS 26, Paragraph 4.6 and in the manner to match the existing adjoining areas.

SECTION 09900

PAINTING, GENERAL

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 D 3273 | (1986;R1991) Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber                                     |
| ASTM D 3274 | (1982: R 1988) Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation. |
| ASTM D 4214 | (1989) Evaluating the Degree of Chalking of Exterior Paint Films  |

1.1.2 COMMERCIAL ITEM DESCRIPTIONS (CID)

- |              |  |
|--------------|--|
| CID A-A-1500 | (Rev A) Sealer, Surface (Latex Block Filler) |
|--------------|--|

1.1.3 FEDERAL SPECIFICATIONS (FS)

- |              |  |
|--------------|--|
| FS TT-E-545  | (Rev C) Primer (Enamel-Undercoat, Alkyd, Odorless, Interior, Flat, tints and White)                      |
| FS TT-F-1098 | (Rev D) Filler, Block, Solvent-Thinned, for Porous Surfaces (Concrete Block, Cinder Block, Stucco, Etc.) |
| FS TT-P-19   | (Rev D) Paint, Latex (Acrylic Emulsion, Exterior Wood and Masonry)                                       |
| FS TT-P-28   | (Rev G) Paint, Aluminum, Heat Resisting (1200 Degrees F.)  |

FS TT-P-29 (Rev J; Am1, Int Am 2) Paint, Latex Base, Interior, Flat, White and Tints

FS TT-P-30 (Rev E; Am1) Paint, Alkyd, Odorless, Interior, Flat, White and Tints

TS TT-P-95 (Rev C; Am 1) Paint, Rubber: for Swimming Pools and Other Concrete and Masonry Surfaces

FS TT-P-102 (Rev E; Am 1; Int Am 1) Paint, Oil, Alkyd Modified, Exterior, White and Tints

FS TT-P-645 (Rev A) Primer, Paint, Zinc Chromate, Alkyd Type

#### 1.1.4 FEDERAL STANDARDS (FED-STD)

FED-STD 313 (Rev C) Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities

FED-STD 595 (Rev A; Notices 2, 3, 4, 5, 7, 8 & 9; Errata) Colors

#### 1.1.5 MILITARY SPECIFICATIONS (MS)

MS MIL-P-26915 (Rev B) Prime Coating, Zinc Dust Pigmented, for Steel Surfaces.

MS MIL-P-28582 (Basic; Notice 1) Primer Coating, Exterior, Lead Pigment-Free (Undercoat for Wood, Ready-Mixed, White and Tints)

#### STEEL STRUCTURES PAINTING COUNCIL (SSPC)

SSPC SP 1 (1982) Solvent Cleaning

SSPC SP 2 (1982) Hand Tool Cleaning

SSPC SP 3 (1982) Power Tool Cleaning

SSPC Paint 5 (1982) Zinc Dust, Zinc Oxide and Phenolic Varnish Paint

1.1.6 Japanese Industrial Standards (JIS):

|        |  |
|--------|--|
| R 5210 | Portland Cement.                         |
| K 5663 | Synthetic Resin Emulsion Paints          |
| K 5582 | Vinyl Chloride Resin Enamel              |
| K 5516 | Ready Mixed Paint (Synthetic Resin Type) |

1.1.7 Japanese Architectural Standard Specification:

|            |                  |
|------------|------------------|
| JASS 18-89 | Paint Work       |
| JASS 23-89 | Spray Finishing. |

1.1.8 DEFINITION

The term "paint" as used herein includes emulsions, enamels, paints, sealers, and other coatings, whether used as prime, intermediate, or finish coat.

1.2 SUBMITTALS

SD-01 Data

The names, quantity represented, and intended use for the proprietary brands of materials proposed to be substituted for the specified materials except for heat resistant paint when the required quantity of a particular color is 50 gallons (189 liters) or less. Product data shall be submitted for heat resistant paint regardless of the required quantity.

SD-06 Instructions.

Manufacturer's current printed product description, material safety data sheets (MSDS) and technical data sheets for each coating system. MSDS submittals shall meet the requirements of FED-STD 313. Detailed mixing, thinning and application instructions and minimum and maximum application temperature.

SD-09 Reports

A statement as to the quantity represented and the intended use, plus the following test report for batches in excess of 50 gallons:

- a. A test report showing that the proposed batch to be used meets all specification requirements.or

b. A test report showing that a previous batch of the same formulation as the batch to be used met all specification requirements, plus on the proposed batch to be used, a report of test results for properties of weight per gallon, viscosity, fineness of grind, drying time, color, and gloss.

#### SD-13 Certificates

Certificate stating that paints for interior use contain no mercurial mildewcide or insecticide. Certificate stating that paints proposed for use contain not more than 0.06 percent lead.

#### SD-14 Samples

While the material is at the site or source of supply, and at a time agreeable to the Contractor and the Contracting Officer, a 1-quart sample of each color and batch shall be taken by random selection from the sealed containers by the Contractor in the presence of a representative of the Contracting Officer. The contents of the containers to be sampled shall be thoroughly mixed to ensure that the sample is representative. Samples shall be identified by designated name, specification number, manufacturer name and address, batch number, project contract number, intended use, and quantity involved.

#### 1.3 PACKAGING, LABELING, AND STORAGE

Paints shall be in sealed containers that legibly show the designated name, formula or specification number, batch number, color, quantity, date of manufacture, manufacturer's formulation number, manufacturer's directions including any warnings and special precautions, and name of manufacturer. Pigmented paints shall be furnished in containers not larger than 5 gallons. Paints shall be stored on the project site or segregated at the source of supply sufficiently in advance of need to allow 30 days for testing.

#### 1.4 APPROVAL OF MATERIALS

When samples are tested, approval of materials will be based on tests of the samples; otherwise, materials will be approved based on test reports furnished with them. If materials are approved based on test reports furnished, samples will be retained by the Government for testing should the materials appear defective during or after application. In addition to any other remedies under the contract the cost of retesting defective materials will be at the Contractor's expense.

## 1.5 ENVIRONMENTAL CONDITIONS

Unless otherwise recommended by the paint manufacturer, the ambient temperature shall be between 45 and 95 degrees F when applying coatings other than water-thinned coating. Water-thinned coatings shall be applied only when ambient temperature is between 50 and 90 degrees F.

## PART 2 PRODUCTS

### 2.1 PAINT

The term "paint" as used herein includes emulsions, enamels, paints, sealers, cement-emulsion filler, and other coatings, whether used as prime, intermediate, or finish coat. Paint shall conform to the respective specifications listed for use in the painting schedules at the end of this section, except when the required amount of a material of a particular color is 50 gallons or less, an approved first-line proprietary paint material with similar intended usage and color to that specified may be used. Additional requirements are as follows:

#### 2.1.1 Colors and Tints

Colors shall be as selected from FED-STD 595 or NIHON TORYO KOGYOKAI 1991R

#### 2.1.2 Mildewcide and Insecticide

Paint specified for all coats applied to surfaces in shower areas shall contain a mildewcide that will not adversely affect the color, texture, or durability of the coating. The mildewcide shall be incorporated into the paint by the manufacturer and shall attain a surface disfigurement rating of 8 or greater when tested in accordance with ASTM D 3273 and evaluated in accordance with ASTM D 3274. Mercurial mildewcide shall not be used in interior paint. Insecticides shall not be used in paint.

#### 2.1.3 Lead

Paints containing lead in excess of 0.06 percent by weight of the total nonvolatile content (calculated as lead metal) shall not be used.

#### 2.1.4 Chromium

Paints containing zinc chromate or strontium chromate pigments shall not be used.

### 2.1.5 Volatile Organic Compound (VOC) Content

Paints shall comply with applicable state and local laws enacted to insure compliance with Federal Clean Air Standards. When the materials specified in the painting schedule do not meet the applicable VOC content limitations, the Contractor shall notify the Contracting Officer prior to commencing the work.

## PART 3 EXECUTION

### 3.1 PROTECTION OF AREAS NOT TO BE PAINTED.

Items not to be painted which are in contact with or adjacent to painted surfaces shall be removed or protected prior to surface preparation and painting operations. Items removed prior to painting shall be replaced when painting is completed. Following completion of painting, workmen skilled in the trades involved shall reinstall removed items. Surfaces contaminated by coating materials shall be restored to original condition.

### 3.2 SURFACE PREPARATION

Surfaces to be painted shall be clean and free of foreign matter before application of paint or surface treatments. Oil and grease shall be removed with clean cloths and cleaning solvents prior to mechanical cleaning where required or specified. Cleaning solvents shall be of low toxicity with a flashpoint in excess of 100 degrees F. Cleaning shall be programmed so that dust and other contaminants will not fall on wet, newly painted surfaces. Exposed ferrous metals such as nail heads on or in contact with surfaces to be painted with water-thinned paints, shall be spot-primed with a suitable corrosion-inhibitive primer capable of preventing flash rusting and compatible with the coating specified for the adjacent areas.

#### 3.2.1 Cement Mortar on ALC

New Cement Mortar surfaces shall be allowed to dry sufficiently before painting. Glaze, efflorescence, laitance, dirt, grease, oil, asphalt, surface deposits of free iron and other foreign matter shall be removed from existing unpainted masonry surfaces prior to painting.

#### 3.2.2 Gypsum Board and Gypsum Slag Board Surfaces

New board surfaces shall be dry and shall have all loose dirt and dust removed by brushing with a soft brush, rubbing with a dry cloth, or vacuum-cleaning prior to application of the first-coat material.

### 3.2.3 Previously Painted Surfaces

Previously painted surfaces specified to be repainted shall be thoroughly cleaned of all grease, dirt, dust or other foreign matter. Blistering, cracking, laking and peeling or other deteriorated coatings shall be removed. Slick surfaces shall be roughened. Damaged areas such as, but not limited to, nail holes, cracks, chips, and spalls shall be repaired with suitable material to match adjacent undamaged areas. Edges of chipped paint shall be feather edged and sanded smooth. Rusty metal surfaces shall be cleaned as per SSPC requirements. Solvent, mechanical, or chemical cleaning methods shall be used to provide surfaces suitable for painting. Chalk shall be removed so that when tested in accordance with ASTM D 4214, the chalk resistance rating is no less than 8. New, proposed coatings shall be compatible with existing coatings. If existing surfaces are glossy, the gloss shall be reduced.

3.2.3.1 Surfaces with loose, chipped or peeling paint, rust or chalk: Surfaces shall be manually or mechanically sanded to provide substrate suitable for recoating. Sanding work shall be performed to minimize production of air-born dust in accordance with Section 02090 Sanded surfaces shall be wiped with cloth or vacuum cleaned.

3.2.3.2 Other Surfaces: Surfaces shall be cleaned of all foreign substances which prohibit proper adhesion of new coating materials. Cleaning methods shall be appropriate for the new coating materials.

### 3.3 MIXING AND THINNING

When thinning is approved as necessary to suit surface, temperature, weather conditions, or application methods, paints may be thinned in accordance with the manufacturer's directions. When thinning is allowed, paints shall be thinned immediately prior to application with not more than 1 pint of suitable thinner per gallon. The use of thinner shall not relieve the Contractor from obtaining complete hiding, full film thickness, or required gloss. Thinning shall not cause the paint to exceed local limits on volatile organic compounds. Paints of different manufacturers shall not be mixed.

#### 3.3.1 Cement-Emulsion Filler Coat

Cement and aggregate shall be dry-mixed so that uniform distribution and intermixing are obtained. Mixing liquid and one-half of the total amount of water shall be premixed and added gradually to the white portland cement conforming to JIS R 5210 and aggregate with constant stirring until a thick, smooth material is obtained. Emulsion paint shall then be added to the mixture and stirred until uniformity is obtained. The blend shall have a thick, creamy consistency. The remainder of the water shall be added if necessary to obtain a

material with adequate application properties. Blending resin emulsion or emulsion paint with any other component shall be done with caution; too rapid an agitation will cause air entrapment and foaming.

### 3.4 APPLICATION

Painting practices shall comply with applicable state and local laws enacted to insure compliance with Federal Clean Air Standards. Unless otherwise specified or recommended by the paint manufacturer, paint may be applied by brush, roller, or spray. At the time of application, paint shall show no signs of deterioration. Uniform suspension of pigments shall be maintained during application. Each coat of paint shall be applied so dry film shall be of uniform thickness and free from runs, drops, ridges, waves, pinholes or other voids, laps, brush marks, and variations in color, texture, and finish. Hiding shall be complete. Rollers for applying paints and enamels shall be of a type designed for the coating to be applied and the surface to be coated. Special attention shall be given to insure that all edges, corners, crevices, welds, and rivets receive a film thickness equal to that of adjacent painted surfaces. Paints, except water-thinned types, shall be applied only to surfaces that are completely free of moisture as determined by sight or touch.

#### 3.4.1 Ventilation

Adequate ventilation shall be provided during paint application. Respirators shall be worn by all persons engaged in sanding and/or spray painting. Adjacent inhibited areas shall be protected by approved precautionary measures.

#### 3.4.2 First Coat

The first coat on new and previously unpainted cement mortar, gypsum wallboard, and other surfaces shall include repeated touching up of suction spots or overall application of primer or sealer to produce uniform color and gloss. Excess sealer shall be wiped off after each application.

#### 3.4.3 Timing

Surfaces that have been cleaned, pretreated, and otherwise prepared for painting shall be given a coat of the specified first coat as soon as practical after such pretreatment has been completed, but prior to any deterioration of the prepared surface. Sufficient time shall elapse between successive coats to permit proper drying. This period shall be modified as

necessary to suit weather conditions. Oil-based or oleoresinous solvent-type paints shall be considered dry for recoating when the paint feels firm, does not deform or feel sticky under moderate pressure of the thumb, and the application of another coat of paint does not cause the undercoat to lift or lose adhesion.

#### 3.4.4 Fillers

Concrete and masonry surface voids shall be filled; however, surface irregularities need not be completely filled. The filler dry film shall be uniform and free of pinholes. Filler shall not be applied over caulking compound.

##### 3.4.4.1 Cement-Emulsion Filler

Immediately before filler application, surfaces shall be dampened uniformly and thoroughly, with no free surface water visible, by several applications of potable water with a fog spray, allowing time between the sprayings for water to be absorbed. Cement-emulsion filler shall be scrubbed into the surface vigorously with a stiff-bristled brush having tampico or palmyra bristles not longer than 2-1/2 inches. At least 24 hours shall elapse before applying exterior emulsion paint over cement-emulsion filler. When the ambient temperature is over 85 degrees F, cement-emulsion filler surfaces shall be dampened lightly with a fog spray of potable water immediately prior to application of the subsequent paint coat.

##### 3.4.4.2 Solvent-Thinned Filler

Solvent-thinned filler, FS TT-F-1098, shall be applied to dry surfaces only and may be applied by brush or roller. Filler shall be allowed to set for 3 to 5 minutes or until the filler becomes tacky, and the excess material shall then be removed with a rubber squeegee. Surface voids shall be filled; however, surface irregularities need not be completely filled. Surfaces to which solvent-thinned filler has been applied shall be given the specified topcoat as soon as practical but before the filler material starts to discolor or chalk.

##### 3.4.4.3 Latex Filler

Latex filler, CID A-A-1500, shall be applied according to the manufacturer's instructions. Surface voids shall be filled and the filler allowed to dry the length of time specified by the manufacture prior to applying successive coats of paint.

#### 3.4.5 Primer

Primer for ferrous-metal shall be applied to ferrous surfaces to receive paint prior to deterioration of the prepared surface.

### 3.5 MISCELLANEOUS PAINTING

#### 3.5.1 Lettering

Lettering shall be provided to match the existing.

### 3.6 SURFACES TO BE PAINTED

Surfaces listed in the painting schedules at the end of this section, other than those listed in paragraph SURFACE NOT TO BE PAINTED, shall be painted as scheduled.

### 3.7 SURFACES NOT TO BE PAINTED

Surfaces not to be painted shall be identified by the Contracting Officer. In addition surfaces of hardware, fittings, and other factory finished items shall not be painted.

### 3.8 CLEANING

Cloths, cotton waste and other debris that might constitute a fire hazard shall be placed in closed metal containers and removed at the end of each day. Upon completion of the work, staging, scaffolding, and containers shall be removed from the site or destroyed in an approved manner. Paint and other deposits on adjacent surfaces shall be removed and the entire job left clean and acceptable.

### 3.9 PAINTING SCHEDULES

The following painting schedules identify the surfaces to be painted and prescribe the paint to be used and the number of coats of paint to be applied. Contractor options are indicated by or between optional systems or coats.

EXTERIOR PAINTING SCHEDULE

| SURFACE  | FIRST COAT                       | SECOND COAT        | THIRD COAT         |
|--|----------------------------------|--------------------|--------------------|
| Concrete, cement mortar and concrete block surfaces and ALC. | Sealer                           | FS TT-P-19         | FS TT-P-19         |
|  | Sealer                           | JIS K 5663 Type 1. | JIS K 5663 Type 1. |
| Masonry surfaces   | FS TT-F-1098                     | TS TT-P-19         |                    |
|  | Cementemulsion filler            | FS TT-P-19         |                    |
|  | Sealer                           | FS TT-P-19         | FS TT-P-19         |
|  | Sealer                           | JIS K 5663 Type 1. | JIS K 5663 Type 1. |
| Gypsum slag board surfaces                                   | Sealer                           | FS TT-P-19         | FS TT-P-19         |
|  | Sealer                           | JIS K 5582         | JIS K 5582         |
| Wood and plywood surfaces.                                   | MS Mil-P-28582                   | FS TT-P-19         | FS TT-P-19         |
|  | Sealer                           | JIS K 5516         | JIS K 5516         |
| Polyvinyl chloride (PVC) Surface                             | FS TT-P-645                      | FS TT-P-102        | FS TT-P-102        |
|  | Primer                           | JIS K 5582         | JIS K 5582         |
| Ferrrous Surfaces  | FS TT-P-645                      | FS TT P 102        | FS TT-P-102        |
|  | Primer                           | JIS K 5516         | JIS K 5516         |
| Galvanized steel   | SSPC paint 5                     | FS TT-P-102        | FS TT-P-102        |
|  | MS MIL-P-26915, Type I, Class A. | JIS K 5516         | JIS K 5516         |

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|                                |                               |            |                               |
|--------------------------------|-------------------------------|------------|-------------------------------|
| Steel smokestack<br>surfaces.  | Primer                        | FS TT-P-28 | FS TT-P-28                    |
| -----or-----                   |                               |            |                               |
| Heat Resistant<br>(MIN. 300°C) | Heat Resistant<br>(MIN 300°C) | Painting   | Heat Resistant<br>(MIN 300°C) |
| -----or-----                   |                               |            |                               |
| Painting                       |                               |            |                               |

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INTERIOR PAINTING SCHEDULE

| SURFACE  | FIRST COAT              | SECOND COAT          | THIRD COAT           |
|--|-------------------------|----------------------|----------------------|
| Gypsum board,<br>concrete block,<br>cement mortar<br>surfaces. | Sealer                  | FS TT-P-29           | FS TT-P-29           |
|  | -----or-----<br>Sealder | JIS K 5663<br>TYPE 1 | JIS K 5663<br>TYPE 1 |
| Water-resistant<br>gypsum board<br>surfaces.                   | Sealer                  | FS TT-P-95           | FS TT-P-95           |
|  | -----or-----<br>Sealer  | JIS K 5582           | JIS K 5582           |
| Wood and plywood<br>surfaces.                                  | FS TT-E-545             | FS TT-P-30           |                      |
|  | -----or-----<br>Sealer  | JIS K 5663<br>TYPE 1 | JIS K 5663<br>TYPE 1 |
| Ferrous surfaces   | SSPC Paint 5            | FS TT-P-30           | FS TT-P-30           |
|  | -----or-----<br>Primer  | JIS K 5516           | JIS K 5516           |

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**SECTION C**

**SKETCHES**

\*\*\*\*\*  
\* Attached sketches are furnished for reference purposes and are \*  
\* intended to provide building location information and a projected \*  
\* visual concept of typical structures which may require painting. \*  
\*\*\*\*\*

# EXTERIOR & INTERIOR PAINTING, VARIOUS STRUCTURES CAMP FUJI, JAPAN

## DRAWING LIST

| RING NO             | DRW NO | TITLE   | RING NO | DRW NO | TITLE   |
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|                     | A-32   | PLAN ELEVATIONS & FINISH SCHEDULES OF BLDG 98                   |         |        |   |
|                     | A-33   | PLAN ELEVATIONS & FINISH SCHEDULES OF BLDG 1-84                 |         |        |   |

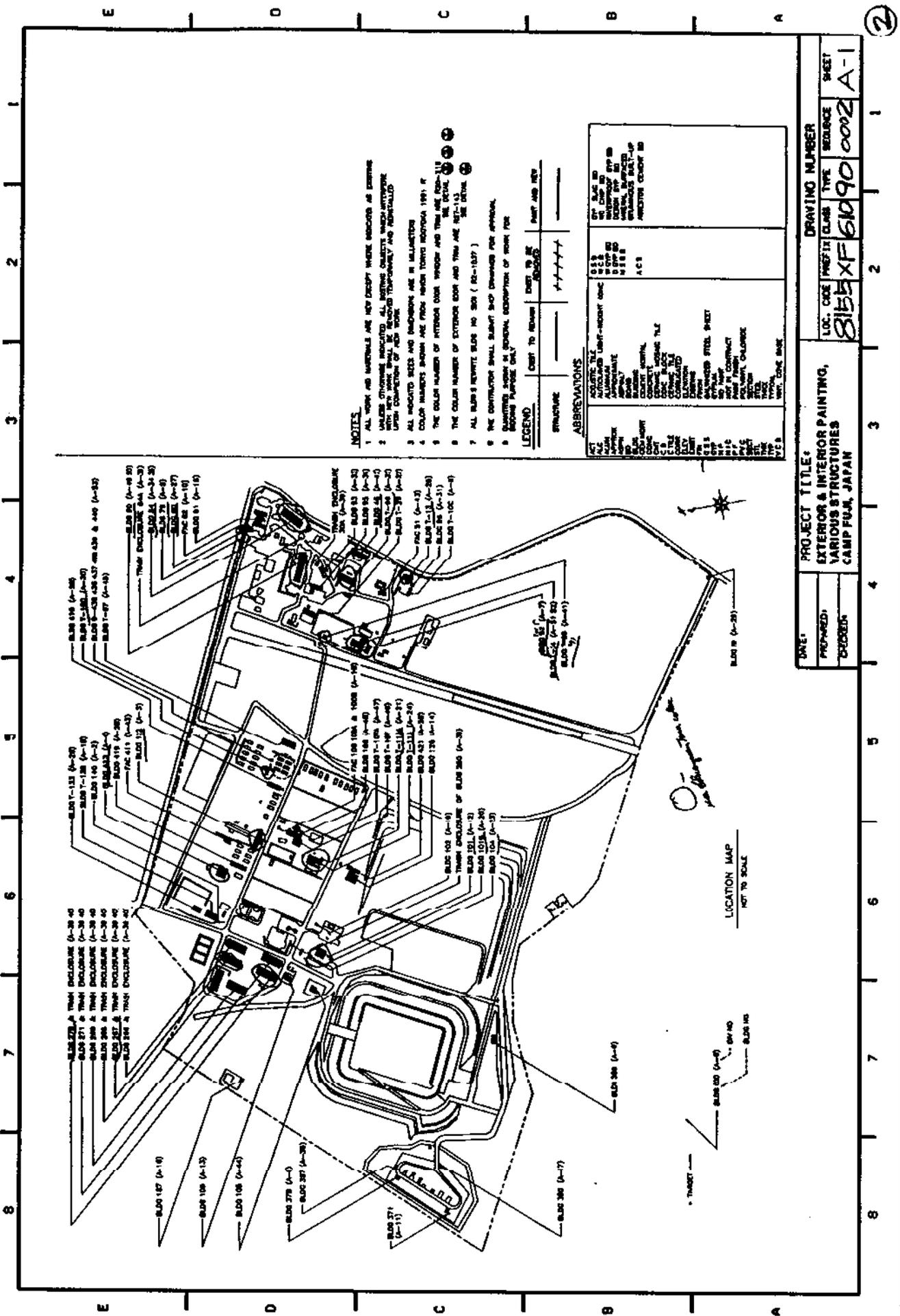
FOR INFORMATION, THESE DRAWINGS ARE FURNISHED FOR THE BENEFIT OF THE BIDDERS AS WELL AS GOVERNMENT AND CONTRACTOR PERSONNEL FOR CLARIFICATION OF FACILITIES TO BE PAINTED UNDER THE REQUIREMENTS CONTRACT.

PROJECT TITLE:  
EXTERIOR & INTERIOR PAINTING,  
VARIOUS STRUCTURES  
CAMP FUJI, JAPAN

DATE:  
PREPARED:  
CHECKED:

DRAWING NUMBER

LOC. CODE PREFIX CLASS TYPE SEQUENCE SHEET  
8155 XF 510 90 0002 T-1



- NOTES:**
- 1 ALL WORK AND MATERIALS ARE NEW UNLESS WHERE INDICATED AS EXISTING
  - 2 UNLESS OTHERWISE INDICATED, ALL WORKING OBJECTS SHALL BE INSTALLED WITH THE WORK SHALL BE REWORKED TEMPORARILY AND REINSTALLED UPON COMPLETION OF NEW WORK
  - 3 ALL INDICATED SIZES AND DIMENSIONS ARE IN MILLIMETERS
  - 4 COLOR MARKERS SHOWN ARE FROM MARKS TAKEN NOVEMBER 1961. IF THE COLOR NUMBER OF INTERIOR DOOR WOODS AND TRIM ARE INDICATED SEE DETAIL
  - 5 THE COLOR NUMBER OF EXTERIOR DOOR AND TRIM ARE INDICATED SEE DETAIL
  - 6 ALL BUILDING REPAIRS SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.
  - 7 MATERIALS SHALL BE GENERAL DESCRIPTION OF TRADE FOR EXISTING MATERIALS ONLY.

**LEGEND:**

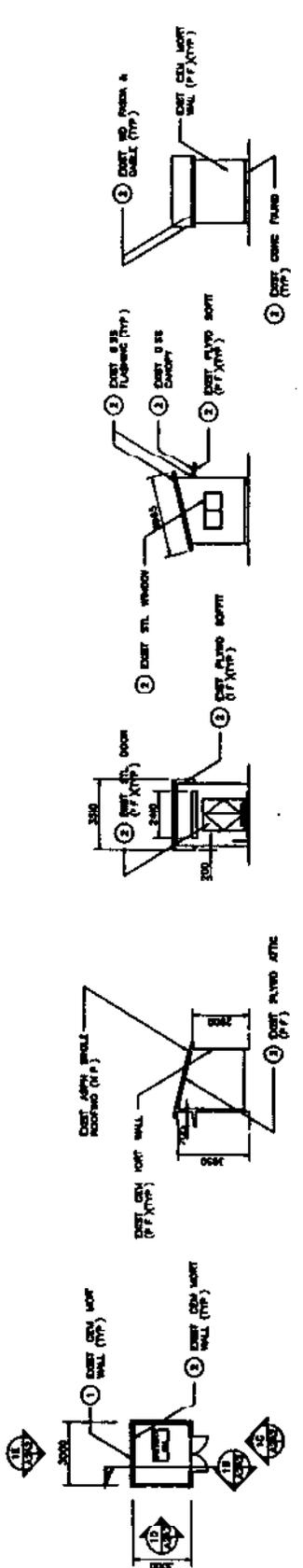
|     |                |     |                    |     |              |
|-----|----------------|-----|--------------------|-----|--------------|
| --- | DOOR TO REMAIN | --- | DOOR TO BE REBUILT | --- | DOOR AND NEW |
| --- | STRUCTURE      | --- | ---                | --- | ---          |

**ABBREVIATIONS:**

|          |          |          |          |          |          |            |          |          |          |
|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|
| ACI      | ALUMINUM | ASBESTOS | BRICK    | CONCRETE | GLASS    | INSULATION | IRON     | STEEL    | WOOD     |
| ALUMINUM   | ALUMINUM | ALUMINUM | ALUMINUM |
| ALUMINUM   | ALUMINUM | ALUMINUM | ALUMINUM |

|           |           |   |  |                 |                |
|-----------|-----------|---|--|-----------------|----------------|
| DATE:     |           | PROJECT TITLE:  |  | DRAWING NUMBER: |                |
| PROVISED: | DESIGNED: | EXTERIOR & INTERIOR PAINTING,<br>VARIOUS STRUCTURES<br>CAMP FUJI, JAPAN |  | LOC. CODE:      | SHEET NO.      |
|           |           |   |  | 8155 XF         | 61090          |
|           |           |   |  | CLASS TYPE:     | SEQUENCE SHEET |
|           |           |   |  |                 | A-1            |

8 7 6 5 4 3 2 1



1A FLOOR PLAN SCALE 1/100

1B SECTION SCALE 1/100

1C SECTION SCALE 1/100

1D SECTION SCALE 1/100

1E ELEVATION SCALE 1/100

177 PLAN, SECTION & ELEVATIONS OF BLDG. 140

EXTERIOR FINISH SCHEDULE

| SURFACE        | MATERIAL   | FINISH | COLOR   | REMARKS |
|----------------|------------|--------|---------|---------|
| CHIMNEY        | EXIST G-1  | P.F.   | R27-140 |         |
| PLUMBING       | EXIST G-1  | P.F.   | R27-140 |         |
| FRONTS & SIALE | EXIST W-9  | P.F.   | R27-140 |         |
| ROOFING        | EXIST P-10 | P.F.   | R15-244 |         |
| WALL           | EXIST C-10 | P.F.   | R15-244 |         |
| FOUNDATION     | EXIST C-10 | P.F.   | R15-244 |         |
| DOOR           | EXIST S-1  | P.F.   | R15-244 |         |
| WINDOW         | EXIST S-1  | P.F.   | R15-244 |         |

INTERIOR FINISH SCHEDULE

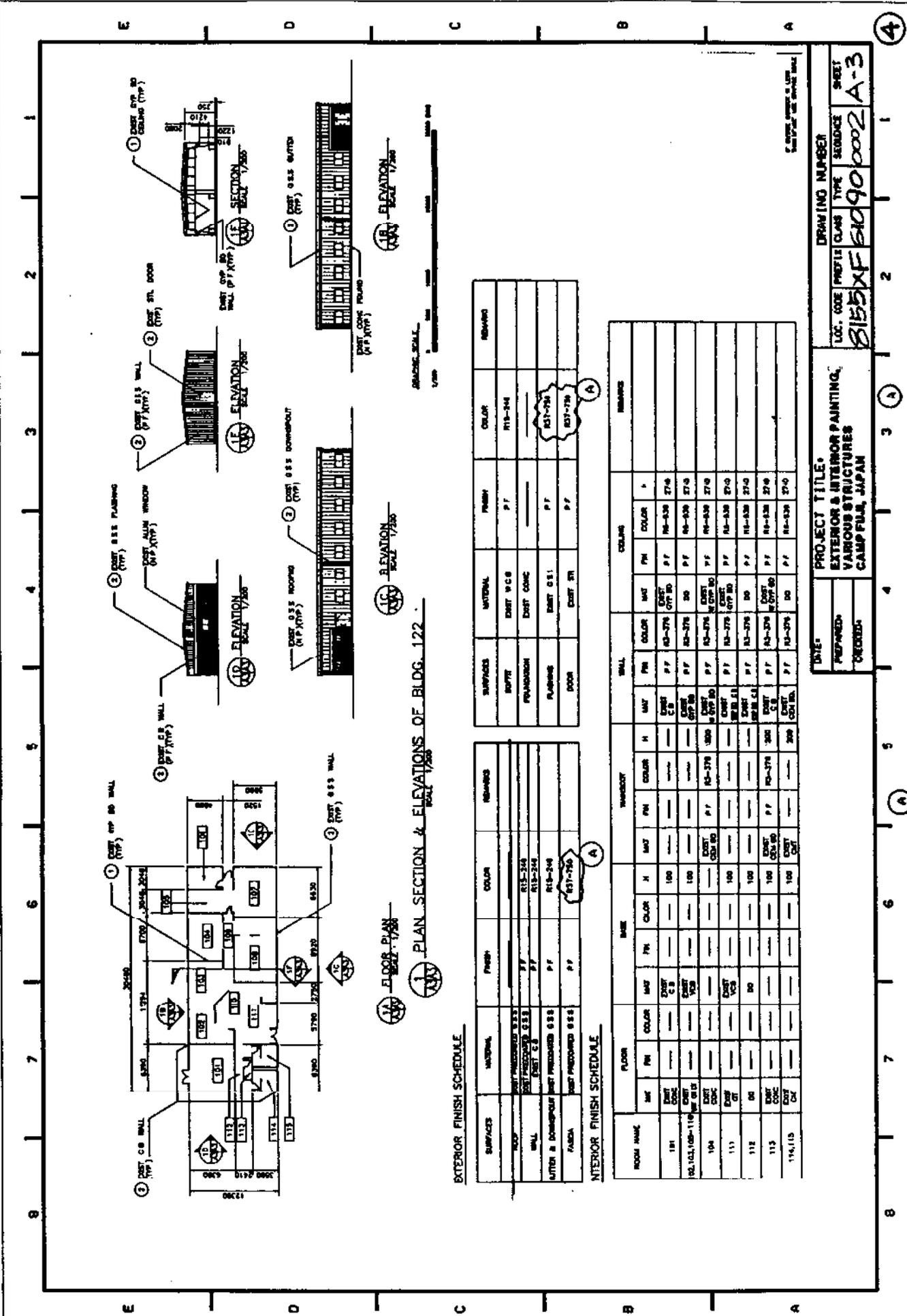
| ROOM NAME  | FLOOR      |       | BASE |       | WALL |       | CEILING |       | REMARKS               |
|------------|------------|-------|------|-------|------|-------|---------|-------|-----------------------|
|            | MAT        | COLOR | FIN  | COLOR | FIN  | COLOR | FIN     | COLOR |                       |
| BATTERY RM | EXIST CONC | P.F.  | ---  | ---   | ---  | ---   | ---     | ---   | ACID RESISTANCE PAINT |

DATE: \_\_\_\_\_  
 PREPARED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_

PROJECT TITLE:  
 EXTERIOR & INTERIOR PAINTING,  
 VARIOUS STRUCTURES  
 CAMP FUJI, JAPAN

DRAWING NUMBER  
 8155 XF 61090 0002 A-2

8 7 6 5 4 3 2 1



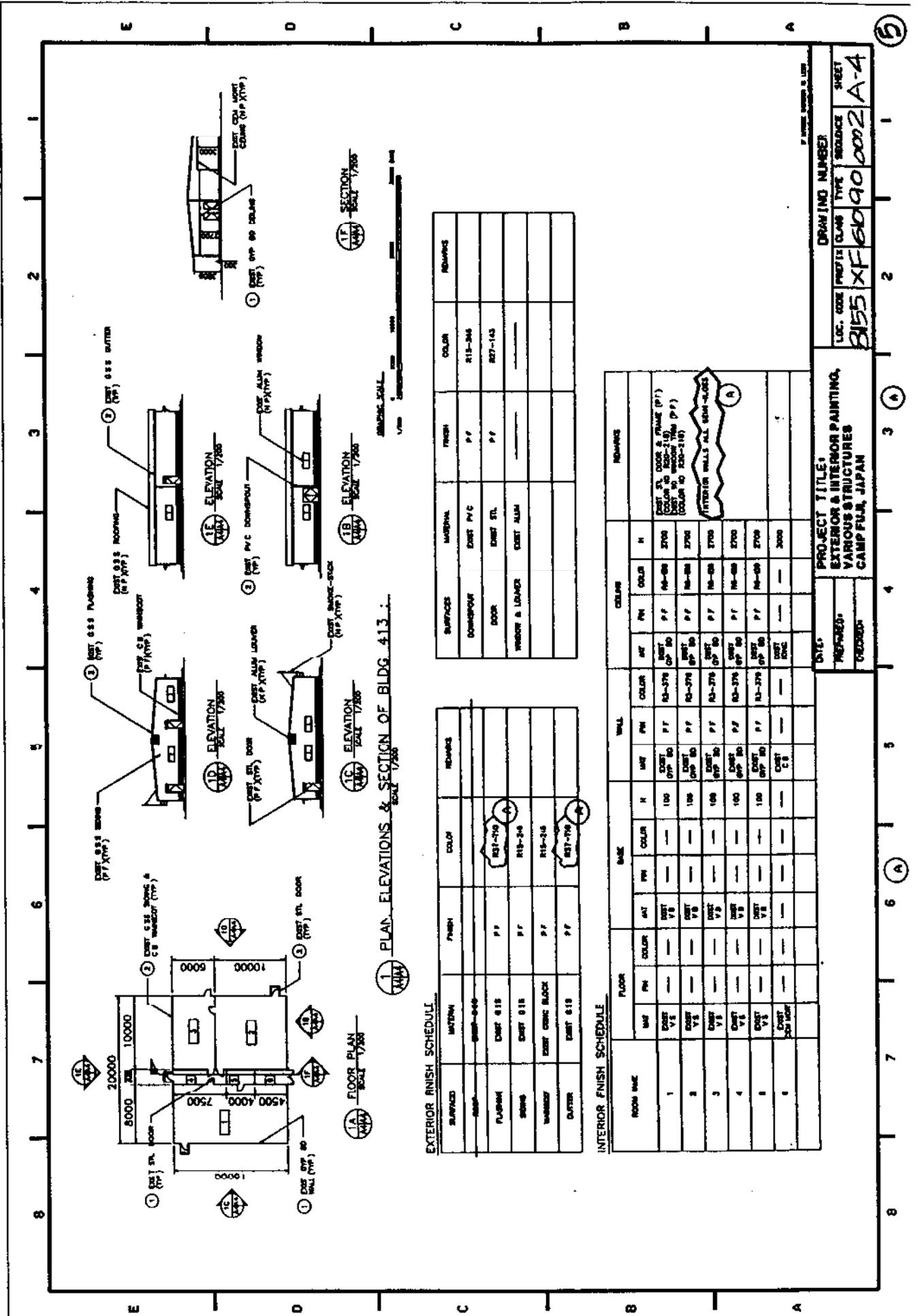
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EXTERIOR & INTERIOR PAINTING,  
VARIOUS STRUCTURES  
CAMP FUJI, JAPAN

**DATE:**

**PREPARED:**  
CEREDA

**DRAWING NUMBER:**  
8155XF 51090002

**SHEET:**  
A-3



1 PLAN ELEVATIONS & SECTION OF BLDG 413

EXTERIOR FINISH SCHEDULE

| SURFACES | MATERIAL | FINISH | COLOR   | REMARKS |
|----------|----------|--------|---------|---------|
| ROOFING  | EMT 010  | P/P    | R15-345 |         |
| WALLS    | EMT 011  | P/P    | R15-345 |         |
| DOORS    | EMT 012  | P/P    | R15-345 |         |
| WINDOWS  | EMT 013  | P/P    | R15-345 |         |
| GLAZING  | EMT 014  | P/P    | R15-345 |         |

INTERIOR FINISH SCHEDULE

| ROOM NAME | FLOOR   |       | BASE    |       | WALL    |       | CEILING |       | REMARKS   |
|-----------|---------|-------|---------|-------|---------|-------|---------|-------|---|
|           | FIN     | COLOR | FIN     | COLOR | FIN     | COLOR | FIN     | COLOR |   |
| 1         | EMT 015 | ---   | EMT 016 | ---   | EMT 017 | ---   | EMT 018 | ---   | EXTERIOR WALLS ALL SHOWN<br>(SEE DRAWING NO. 413-1) |
| 2         | EMT 015 | ---   | EMT 016 | ---   | EMT 017 | ---   | EMT 018 | ---   |   |
| 3         | EMT 015 | ---   | EMT 016 | ---   | EMT 017 | ---   | EMT 018 | ---   |   |
| 4         | EMT 015 | ---   | EMT 016 | ---   | EMT 017 | ---   | EMT 018 | ---   |   |
| 5         | EMT 015 | ---   | EMT 016 | ---   | EMT 017 | ---   | EMT 018 | ---   |   |
| 6         | EMT 015 | ---   | EMT 016 | ---   | EMT 017 | ---   | EMT 018 | ---   |   |

PROJECT TITLE:  
 EXTERIOR & INTERIOR PAINTING,  
 VARIOUS STRUCTURES  
 CAMP FUJI, JAPAN

DATE: \_\_\_\_\_

DESIGNED BY: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_

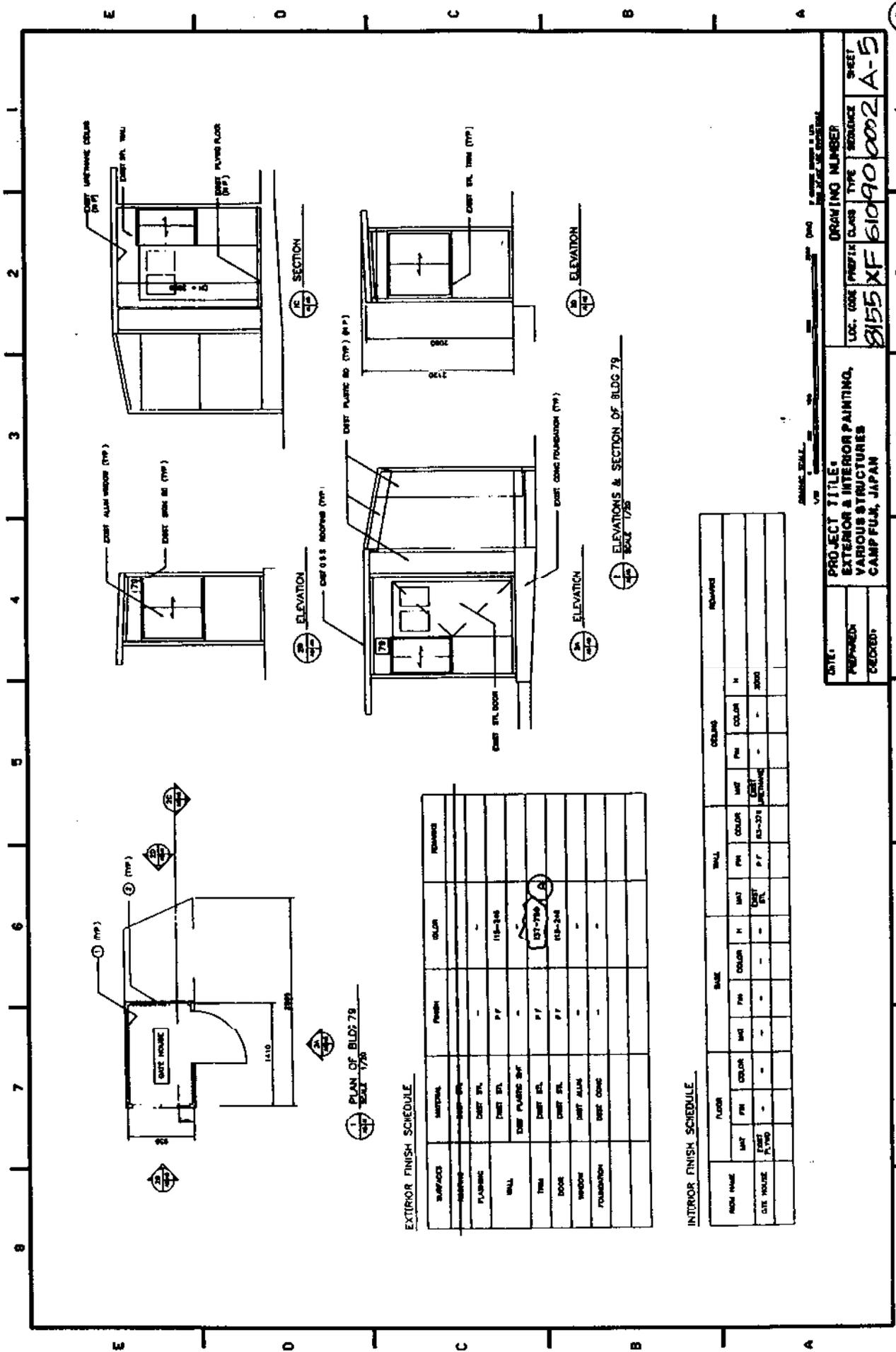
DRAWING NUMBER: 8155 XF 6090 002 A-4

LOC. CODE: 8155

PROJECT CLASS: XF

TYPE: RESIDENCE

SHEET: A-4



EXTERIOR FINISH SCHEDULE

| SURFACE    | MATERIAL         | FINISH | COLOR  | REMARKS |
|------------|------------------|--------|--------|---------|
| ROOFING    | ASPH-FL          | -      | -      |         |
| PLASTER    | DITE ST          | -      | -      |         |
| WALL       | DITE ST          | P F    | 15-348 |         |
|            | DITE PLASTER SIF | -      | -      |         |
| TRIM       | DITE ST          | P F    | 15-348 |         |
| DOOR       | DITE ST          | P F    | 15-348 |         |
| WINDOW     | DITE ALUM        | -      | -      |         |
| FOUNDATION | DITE CONC        | -      | -      |         |

INTERIOR FINISH SCHEDULE

| ROOM NAME  | FLOOR |     | BASE |     | WALL |     | CEILING |     | REMARKS |
|------------|-------|-----|------|-----|------|-----|---------|-----|---------|
|            | INT   | FIN | INT  | FIN | INT  | FIN | INT     | FIN |         |
| DITE HOUSE |       |     |      |     |      |     |         |     |         |

PROJECT TITLE: EXTERIOR & INTERIOR PAINTING, VARIOUS STRUCTURES  
 DRAWING NUMBER: 8155 XF 61090 002 A-5  
 SHEET: A-5

INVITATION FOR BIDS NO. DACA79-93-R-0012

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INVITATION FOR BIDS NO. DACA79-93-B-0012

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INVITATION FOR BIDS NO. DACA79-93-B-0012

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**G-3**                   **DESIGNATED BILLING OFFICE**  
**G-2**                   **PAYMENTS**

**SECTION G**

**CONTRACT ADMINISTRATION DATA**

**G-1. CONTRACT ADMINISTRATION**

(a) Contracting Officer: This contract will be administered by a Contracting Officer assigned to the U.S. Army Engineer District, Japan, Unit 45010, APO AP 96343-0061.

(b) Contracting Officer's Representatives (COR'S): The Contracting Officer may designate one or more individuals as his/her authorized representatives in administering the contract under this solicitation. Refer to the clause in Section I, entitled Contracting Officer's Representative (DFARS 252.201-7000) for the definition and limited authority of COR's.

(c) Ordering Officer(s) may be designated for the purpose of issuing Delivery Orders/Work Requests against the contract, subject to the authority and limitations based on established Government Regulations [AFARS 1.698]

**G-2. DESIGNATED BILLING OFFICE**

Kanagawa Resident Office, U.S. Army Engineer District, Japan, Unit 45010, APO AP 96343-0061

**G-3. PAYMENTS:**

The items listed hereinafter are as stated in the Bidding Schedule.

a. "Item No. 0001 Paint previously painted surfaces of concrete, cement mortar, masonry and ALC, and unpainted surfaces of new cement mortar. Surface preparation does not include sanding", will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to removal work, and all incidental items necessary to complete the work.

b. "Item No. 0002 Paint previously painted surfaces of concrete. Surface preparation includes removal of peeling lead containing paint by sanding", will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to removal work, surface preparation, sealer, protection of surfaces, weatherproofing work, and all incidental items necessary to complete the work.

c. "Item No. 0003 Paint previously painted galvanized and ferrous metal surfaces. Surface preparation includes sanding lead containing paint" will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to removal work, surface preparation, primer, protection of surfaces, painting work, and all incidental items necessary to complete the work.

d. "Item No. 0004 Paint previously painted and unpainted gypsum slag board surfaces. Surface preparation does not include sanding" will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to removal work, surface preparation, sealer, protection of surfaces, weatherproofing work, and all incidental items necessary to complete the work.

e. "Item No. 0005 Paint previously painted surfaces of wood and plywood. Surface preparation includes sanding lead containing paint", will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to removal work, surface preparation, primer, protection of surfaces, painting work, and all incidental items necessary to complete the work.

f. "Item No. 0006 Paint previously painted surfaces of PVC. Surface preparation includes sanding non-lead-containing paint", will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to removal work, surface preparation, primer, protection of surfaces, painting work, and all incidental items necessary to complete the work.

g. "Item No. 0007 Paint previously painted surfaces of PVC. Surface preparation includes sanding lead containing paint", will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to removal work, surface preparation, primer, protection of surfaces, painting work, and all incidental items necessary to complete the work.

h. "Item No. 0008 Paint previously painted surfaces of smoke stacks. Surface preparation includes sanding lead containing paint", will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to removal work, surface preparation, primer, protection of surfaces, painting work, and all incidental items necessary to complete the work.

i. "Item No. 0009 Scaffolding" will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to erection and removal work, protection of surfaces, safety measures, and all incidental items necessary to complete the work.

## Interior Surfaces

j. "Item No. 0010 Paint previously painted surfaces of gypsum board, masonry, cement mortar and ALC, and unpainted gypsum board. Surface preparation does not include sanding", will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to removal work, surface preparation, sealer, protection of surfaces, weatherproofing work, and all incidental items necessary to complete the work.

k. "Item No. 0011 Paint previously painted surfaces of galvanized and ferrous metal. Surface preparation does not include sanding" will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to removal work, surface preparation, primer, protection of surfaces, painting work, and all incidental items necessary to complete the work.

l. "Item No. 0012 Paint previously painted surfaces of galvanized and ferrous metal. Surface preparation includes sanding lead containing paint", will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to removal work, surface preparation, protection of surfaces, weatherproofing work, and all incidental items necessary to complete the work.

m. "Item No. 0013 Paint previously painted surfaces of wood and plywood. Surface preparation does not include sanding", will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to removal work, surface preparation, primer, protection of surfaces, painting work, and all incidental items necessary to complete the work.

n. "Item No. 0014 Paint previously painted surfaces of wood and plywood. Surface preparation does not include sanding lead containing paint", will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to removal work, surface preparation, primer, protection of surfaces, painting work, and all incidental items necessary to complete the work.

o. "Item No. 0015 Paint previously painted surfaces of moisture resistant, gypsum board. Surface preparation does not include sanding" will be paid at the contract price per square meter (SM) complete in place and ready for use, including but not limited to removal work, surface preparation, sealer, protection of surfaces, weatherproofing work, and all incidental items necessary to complete the work.

p. "Item No. 0016 Portable trestle platform" will be paid at the contract price per square meter (SM), complete in place and ready for use, including but not limited to erection and removal work, protection of surfaces, safety measures, and all incidental items necessary to complete the work.

## Repair Work

- q. "Item No. 0017 Repair damaged gypsum board by replacement" will be paid for at the contract price per square meter (SM), complete in place and ready for use including but not limited to removal work, repair work, curing and protection of surfaces, and all incidental items necessary to complete the work.
- r. "Item No. 0018 Repair damaged ALC board with cement mortar" will be paid for at the contract price per square meter (SM), complete in place and ready for use including but not limited to removal work, repair work, curing and protection of surfaces, and all incidental items necessary to complete the work.
- s. "Item No. 0019 Provide gypsum slag board where gypsum slag board is missing" will be paid for at the contract price per square meter (SM), complete in place and ready for use including but not limited to removal work, repair work, curing and protection of surfaces, and all incidental items necessary to complete the work.
- t. "Item No. 0020 Provide PVC downspout (100 diam.) where it is missing or damaged", will be paid for at the contract price per square meter (SM), complete in place and ready for use including but not limited to removal work, repair work, curing and protection of surfaces, and all incidental items necessary to complete the work.
- u. "Item No. 0021 Repair concrete cracks. U-cut cracks and finish with sealer and resin mortar", will be paid for at the contract price per square meter (SM), complete in place and ready for use including but not limited to removal work, repair work, curing and protection of surfaces, and all incidental items necessary to complete the work.

INVITATION FOR BIDS NO. DACA79-93-B-0012

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| H.2      | 52.0000-4302 rqt | 52.0000-4302RQT LIQUIDATED DAMAGES--CONSTRUCTION (APR 1984)                   |
| H.3      | 52.0000-4305     | 52.0000-4305 PHYSICAL DATA (APR 1984)   |
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INVITATION FOR BIDS NO. DACA79-93-B-0012

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| H.47     | 52.0217-0009     | OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 1989)                      |
| H.48     | 52.0236-0001     | PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984)                          |
| H.49     | 52.0236-0017     | LAYOUT OF WORK (APR 1984)   |
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SECTION H  
SPECIAL CONTRACT REQUIREMENTS

H.1

52.0000-4301 ALT COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK  
(APR 1984)

(a) The Contractor shall not commence work on this contract until receipt of a Delivery Order, and will not perform the work until receipt of WORK REQUESTS.

(b) The Contractor shall be required to schedule and prosecute the work as specified on the WORK REQUESTS, which will indicate the performance time allowed for completion of work.

(c) Performance time for work, including cleanup of the site, will be determined for each WORK REQUEST as designated below:

Aggregate Painted Surfaces - (Non Lead)

|                           |   |
|---------------------------|---|
| Up to 1,500 SM            | 5 calendar days   |
| Over 1,500 SM to 3,000 SM | 10 calendar days  |
| Over 3,000 SM to 6,000 SM | 15 calendar days  |
| Over 6,000 SM             | 15 calendar days per increment of 6,000 SM or proportion thereof. |

Aggregate Painted Surfaces - (Containing Lead)

|                           |   |
|---------------------------|---|
| Up to 1,500 SM            | 8 calendar days   |
| Over 1,500 SM to 3,000 SM | 15 calendar days  |
| Over 3,000 SM to 6,000 SM | 23 calendar days  |
| Over 6,000 SM             | 23 calendar days per increment of 6,000 SM or proportion thereof. |

Additional days are as listed in the following:

Bid Item No. 0017, 0018 and 0019 - Add 1 calendar day for every 10 SM of repair or fraction thereof.

Bid Item No. 0020 - Add 1 calendar day for every 30 LM of replacement or fraction thereof.

Bid Item No. 0021 - Add 1 calendar day for every 25 LM of repair or fraction thereof.

(d) The Contractor will be given thirty (30) calendar days for

procurement of materials for the initial WORK REQUEST issued against the first Delivery order, and fourteen (14) calendar days for subsequent WORK REQUESTS. This time will be concurrent with the performance time for previous WORK REQUESTS, if applicable.

(e) The Contractor shall comply with the requirements peculiar to this contract as indicated in the clause, entitled "SPECIAL REQUIREMENTS", of Section H, if any.

H.2

52.0000-4302RAT LIQUIDATED DAMAGES--CONSTRUCTION (APR 1984)

(a) If the Contractor fails to complete the work within the time specified in the contract or any extension thereof, the Contractor shall pay to the Government as liquidated damages the sum of Y10,000 per calendar day for each day of delay per WORK REQUEST.

NOTE: In the event of concurrent delay in the completion dates of the WORK REQUESTS, the Contractor will be assessed Liquidated Damages on a cumulative basis. \_\_\_\_\_

(b) If the Government terminates the Contractor's right to proceed, the resulting damage will consist of liquidated damages until such reasonable time as may be required for final completion of the work together with any increased costs occasioned the Government in completing the work.

(c) If the Government does not terminate the Contractor's right to proceed, the resulting damage will consist of liquidated damages until the work is completed or accepted. [FAR 52.212-5]

H.3

52.0000-4305 PHYSICAL DATA (APR 1984)

Data and information furnished or referred to below is 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 investigations by surveys.

(b) Weather conditions. Data on temperature, rainfall, and snow may be obtained from local Agencies responsible for recording meteorological data. (Also see Special Contract Requirements entitled

"Time Extensions for Unusually Severe Weather".)

(c) Transportation facilities. The Contractor shall make his own investigation of the condition and availability of public and private roads as well as clearances, restrictions, and load limits of bridges.

(d) (1) Security Requirements. The Contractor shall comply with the industrial security requirements of the Army/Air Force/Navy, as applicable. Contractor personnel requiring access to the military installation in connection with the contract may be subject to security investigation and shall be admitted to only those parts of the installation or building(s) where their presence is required. While on the job, Contractor employees shall display identification as may be required under the special Contract Requirements entitled "Identification of Employees." Vehicles operating on the military installation are subject to search by security personnel at any time. Immediately upon receipt of notice to proceed, the Contractor shall furnish to the Contracting Officer the following:

(i) A roster of all employees who will need access to the military installation in connection with the contract. The roster shall be submitted in three copies. If requested in writing by the Contracting Officer, additional personnel data shall also be furnished.

(ii) A list of automotive vehicles which will be used on the military installation in connection with the contract. The list shall include make, year, license number, details of insurance coverage, etc.

The list of automotive vehicles shall be submitted in four copies. The Contractor shall be responsible for vehicle permits issued to him and his subcontractors. When so authorized by the Contracting Officer, the Contractor may coordinate directly with the military police concerning permits for contractor-owned vehicles. Privately-owned vehicles used by Contractor personnel must be registered with the military police by the individual owners. [FAR 52.236-4]

H.4

#### 52.0000-4306 AVAILABILITY AND USE OF UTILITY SERVICES (APR 1984)

(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.

(c) Schedule of utilities from the Government without charge:

(1) Water

(2) Electricity

[FAR 52.236-14]

H.5

#### 52.0000-4311 PRECONSTRUCTION CONFERENCE

The Contractor shall meet with the Contracting Officer's Representative at a pre-construction conference to be held as soon as possible after contract award. At this conference the Contractor will be oriented with respect to Government procedures and contractual lines of authority, as well as administrative, safety and construction execution matters. An agenda will be sent to the Contractor to aid in his preparation for the pre-construction conference. Discussion of Contractor's Quality Control will be brief in nature as this topic will be discussed in detail at the QC/QA Coordination Meeting. Minutes of the pre-construction conference will be prepared by the Government and forwarded to the Contractor for review and written concurrence. Contractor's comments, if any, will be included in the revised minutes, a copy of which will be sent to the Contractor. [JED]

H.6

#### 52.0000-4314 CERTIFICATE OF COMPLIANCE

Any certificates required for demonstrating proof of compliance of materials with specifications requirements shall be executed in five (5) copies. Each certificate shall be signed by an official authorized to certify on 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 materials, if, after tests are performed on selected samples, the material is found not to meet the specific requirements. [JED]

H.7

52.0000-4315 IDENTIFICATION OF EMPLOYEES

The Contractor shall be responsible for furnishing to each employee and for requiring each employee engaged on the work to display such identification as may be approved and directed by the Contracting Officer.

All prescribed identification shall immediately be delivered to the Contracting Officer for cancellation upon the release of any employee. When required by the Contracting Officer, the Contractor shall obtain and submit fingerprints of all persons employed or to be employed on the project. [JED]

H.8

52.0000-4316 GROUND-FAULT CIRCUIT INTERRUPTERS

Ground-fault circuit interrupters for all 120-volt single phase 15- and 20-ampere receptacle outlets which are not part of the permanent wiring of the building or structure shall be provided by the Contractor in accordance with Section 11.C.05 of Engineer Manual 385-1-1. [JED]

H.9

52.0000-4317 TEMPORARY ELECTRICAL POWER

The Contractor shall inspect all temporary electrical service weekly to ensure compliance with EM 385-1-1 and National Electrical Code. The inspection shall be conducted by a qualified electrician under the supervision of the project CQC chief. The results of the safety inspection shall be certified and attached to the QC report on the day the inspection is conducted. Unsafe conditions and correction shall be noted on the report. [JED]

H.10

52.0000-4318 ACCIDENT PREVENTION PLAN

Within 15 days after receipt of Notice of Award of the contract, and at least 7 days prior to the prework conference, four (4) copies of the Accident Prevention Program shall be submitted to the Contracting Officer for acceptance. The program shall be prepared in the following format:

(a) An executed POD Form 248R, Administrative Plan.

(b) An executed POD Form 184-R, Activity Hazard Analysis. (At the Contracting Officer's discretion, the Contractor may submit his activity hazard analysis only for the first phase of construction provided that it is accompanied by an outline of the remaining phases of construction. All remaining phases shall be submitted and accepted prior to the beginning of work in each phase.)

(c) The company's policy statement on accident prevention and any other guidance statements normally provided to new employees shall be made part of the Contractor's accident prevention plan.

(d) When marine plant and equipment are in use under a contract, the method of fuel oil transfer shall be included on POD Form 256R, Fuel Oil Transfer (refer to 33 CFR 156).

(e) The Contractor shall not commence physical work at the site (to include mobilization) until the Accident Prevention Program has been accepted by the Contracting Officer or his authorized representative. In developing and implementing his Accident Prevention Program, the Contractor is reminded of his responsibility for enforcing the U.S. Army Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1, as revised. Particular attention should be paid to section 1 of this manual concerning Instruction and Training and the requirements of an acceptable Accident Prevention Plan. [JED]

H.11

52.0000.4319 RECORD DRAWINGS, SIMPLIFIED DESIGN METHOD (SDM)

(a) The Contractor shall provide and keep up to date, a complete "as built" record of SDM drawings which include 8-1/2"x11" and/or 11"x17" size drawings which shall be corrected daily and show changes from the original drawings and specifications and the exact "as-built" locations, sizes and type of equipment etc. This set of drawings shall be kept at the jobsite and be available at all times to the Government.

(b) Before contract completion, the Contractor shall submit a full set of red pen marked-up contract drawings to the Government for review. Upon completion of the Government action, the Contracting Officer will furnish to the Contractor, the bond originals of the contract drawings and return the Contractor's red marked-up drawings. The Contractor shall then take immediate action to revise the bond originals to reflect all changes made during construction. Floor plans, exterior elevations and roof plans shall be transferred to 28"x40" size tracings at a scale of 1/8"-1'-0" or 1/4"-1'-0". All other drawings and details will be kept in their original sizes of 8-1/2"x11" and/or 11"x17". The quality of the Contractor's

draftsmanship shall be comparable to that of the bond originals. The Contractor shall complete the revisions within twenty (20) calendar days after receiving the originals from the Government. Upon completion of the revision work, the Contractor shall submit the full set of bond originals, two full sets of copies made from the bond originals and the red pen marked-up copies to the Contracting Officer for review.

H.12

52.0000-4320 APPLICABLE LAW

All rights, obligations and remedies are governed by the terms and clauses of this Contract. The validity and interpretation of the terms and clauses of this Contract and all rights, obligations and remedies thereunder shall be construed in accordance with the laws of the United States of America. [Revised JED, 1982]

H.13

52.0000-4322 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER

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 listing below defines the monthly anticipated adverse weather days for the contract period and is based upon 20th Weather Squadron (MAC), U.S. Air Force; Iwakimi U.S. Marine Corps Air Station, Weather Service; JASDF (Japan Air Self Defense Force), or similar data for the geographic location of the project. (More specific information may be obtained as specified under Special Contract Requirements Clause entitled "Physical Data.")

MONTHLY ANTICIPATED ADVERSE WEATHER DELAYS

WORK DAYS BASED ON (5) DAY WORK WEEK

|     | CEPOJ-NA<br>(Misawa-Area) | CEPOJ-CD-P<br>(Kanto Plain) | CEPOJ-CD-PI<br>(Iwakuni) | CEPOJ-OK<br>(Okinawa) |
|-----|---------------------------|-----------------------------|--------------------------|-----------------------|
| JAN | 8                         | 1                           | 2                        | 5                     |
| FEB | 9                         | 3                           | 4                        | 7                     |
| MAR | 6                         | 6                           | 7                        | 8                     |
| APR | 3                         | 6                           | 6                        | 6                     |
| MAY | 4                         | 4                           | 6                        | 6                     |
| JUN | 5                         | 9                           | 8                        | 6                     |
| JUL | 6                         | 6                           | 6                        | 6                     |
| AUG | 6                         | 6                           | 5                        | 9                     |
| SEP | 6                         | 7                           | 6                        | 7                     |
| OCT | 4                         | 5                           | 4                        | 4                     |
| NOV | 6                         | 4                           | 4                        | 4                     |
| DEC | 7                         | 1                           | 3                        | 5                     |

The above schedule of anticipated adverse weather days shall constitute the base line for monthly (or portion thereof) weather time evaluations.

3. Upon acknowledgment of the Notice to Proceed (NTP) and continuing throughout the contract, the contractor will record on the daily CQC report, the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical activities for 50 percent or more of the contractor's scheduled work day.

4. The number of actual adverse weather delay 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 of each month, and exceeds the number of days anticipated in paragraph 2, above, the Contracting Officer will convert any qualifying fair weather work days, and issue a modification in accordance with the contract clause entitled "DEFAULT (FIXED PRICE CONSTRUCTION)".

5. For all work under this contract, adverse weather is defined as:

- a. Rainfall - # of occurrences of precipitation greater than or equal to 0.10" (2.54mm).
- b. Snowfall - # of occurrences of precipitation greater than or equal to 1.00" (25.4mm). (Not applicable to Okinawa Area)
- c. Cold Temperature - # of occurrences when daily maximum

temperature does not exceed the monthly mean low temperature or 32 degrees Fereheit (0 degrees Celcius), whichever is lower.

(Not applicable to Okinawa Area)

d. Concurrence between snowfall and cold temperature is 80%, i.e. 80% of the time snow falls, the temperature is "cold".

6. The contractor's schedule must reflect the above anticipated adverse weather delays on all weather-dependent activities.

H.14

52.0000-4324 SOURCE OF MATERIALS

International Balance of Payments construction procedures do not apply for this project. Therefore, the source of materials and equipment to be incorporated in the work is restricted only to the Contract Clause entitled, "RESTRICTION ON CERTAIN FOREIGN PURCHASES", and by the requirements of the specifications. Should Section J contain an Appendix "D", the materials and equipment listed thereon must be Contractor-furnished CONUS-Procured Materials.

H.15

52.0000-4326 MONTHLY PROGRESS NARRATIVE REPORT

The contractor shall submit at monthly intervals a report of the actual construction progress by updating the project chart to indicate actual progress. The contractor shall also submit a narrative report of the status of the work. Items to be included in the report shall include as a minimum:

(a) Activities of work behind schedule, reason for the delay, and what actions are planned to overcome the delay.

(b) Status of overdue submittals, either by the Contractor or Government review, and the impact of these overdue submittals on the progress of the work.

(c) Status of procurement of CONUS items as required by Special Contract Requirements Clause for CONUS procurement.

(d) Any other actions delaying progress and reason for the delay and plans to overcome the delay.

H.16

52.0000-4327 PROGRESS CHARTS

If the Government revises the work to be accomplished by issuing a notice to proceed with a change to the contract which would affect the

order of work or duration of time for completing the work, the progress chart prepared by the Contractor pursuant to the contract clause entitled "SCHEDULE FOR CONSTRUCTION CONTRACTS" shall be revised promptly by the Contractor by adding to, deleting, or rescheduling the affected features to indicate the Contractor's current plans for completing the work as revised. The cost for this revision of the schedule is a part of the cost of the change. Revisions to the progress charts shall be made no later than the next regular progress updating following notice to proceed with the change, whether or not the formal modification to the contract has been issued. If the Contractor fails or refuses to incorporate the changed work in the progress chart, the Contracting Officer may furnish revisions which the Contractor shall include and use in the progress chart until the modification is settled or until actual dates supersede the estimated data. If the Contractor objects to the changes furnished by the Contracting Officer, he shall submit such objections in writing along with a counterplan within 20 days after the date suggested revisions were furnished by the Contracting Officer. Failure to submit objections and counterplan within the 20 days will be deemed to indicate the Contractor's concurrence in the Contracting Officer's suggested revisions. The schedule into which these revisions have been incorporated shall become the current schedule for continued evaluation of progress and the document which will be used to evaluate impact on the Contractor's work for time extensions. [JED]

H.17

52.0000-4400 USE OF GOVERNMENT BUILDINGS BY THE CONTRACTOR

The Contractor will not be permitted to utilize any Government building or facility for his-site office space or storage area for materials without prior written approval of the Contracting Officer.

H.18

52.0000-4403 WARRANTY IMPLEMENTATION

a. The Contractor shall designate a representative within the country of Japan to implement the warranties included in this contract. The Contractor may designate himself provided he has a permanent office in the country of Japan. The Contractor may designate different representatives for separate specialties of work.

b. The name, address, telephone number of the representative, and nomenclature of warranty item shall be submitted to the Contracting Officer's representative at least 30 days prior to the contract completion date or beneficial occupancy of the work or part thereof. For the purposes of paragraph f of the warranty clause, a reasonable time shall be

considered to be as follows:

(1) 21 calendar days from the receipt of a written notification of any failure, defect, or damage of such nature that the work remains functional or habitable or both, as applicable.

(2) 24 hours for failure, defects or damages which render the work nonfunctional or uninhabitable or both. Response in this instance starts from receipt of verbal notification from an authorized Government representative. Written confirmation will follow the initial verbal request.

c. The Contractor shall place equipment warranty stickers (OF 274) on all warranted equipment in the location designated by the Contracting Officer's representative. The Contracting Officer will furnish the stickers and the Contractor shall be required to fill out the required information and place the stickers on the equipment.

H.19

52.0000-4404 WARNING SIGNALS OR BARRICADES

In addition to the clause entitled "Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements", the Contractor shall, during the progress of the work, take all proper precautions in providing good and safe barriers, lights, warning signs and any other safeguards for the prevention of accidents and for the protection of persons and property.

H.20

52.0000-4406 INTERFERENCE WITH GOVERNMENT OPERATIONS

The Contractor shall establish work procedures and methods to avoid interference with existing operations within or adjacent to the construction area. Free passage into adjoining or adjacent buildings not in the contract will not be permitted except as approved by the Contracting Officer. Procedures and methods shall also provide for safe conduct of work and protection of property which is to remain undisturbed.

H.21

52.0000-4407 DUST CONTROL

The Contractor shall control the generation of dust and flying particles from his operations to prevent creation of a nuisance to

Government personnel and dependents in occupied portions of the buildings and in the surrounding areas. Measures shall also be taken for dust control along haul routes and equipment parking areas. Method or methods of dust control shall be approved by the Contracting Officer.

H.22 52.0000-4408 REMOVAL AND DISPOSAL

Items indicated to be removed shall be removed and be disposed of by the Contractor outside the limits of Government-controlled land at his responsibility and expense.

H.23 52.0000-4409 RESTORATION WORK

Existing conditions or areas damaged or disturbed by the Contractor's operation shall be restored to their original condition, or to near original condition as possible, to the satisfaction of the Contracting Officer.

H.24 52.0000-4410 WRITTEN COMMUNICATIONS IN ENGLISH

All submittals required under this contract, including but not limited to, safety hazard analysis plans and quality control plans, all correspondence of any nature whatsoever, and all other written communications, documents, drawings, reports, etc., of every description, shall be written in English or translated into English, before being provided to the Government by the Contractor.

H.25 52.0000-4411 ENGLISH SPEAKING REPRESENTATIVE

At all times during the contract period the Contractor shall have an employee capable of fluent bilingual speech in the Japanese and English languages at the job site. The bilingual interpreter shall have the capability to receive and issue concise and technical explanation and instructions between the Government representative(s) and Contractor supervisory personnel concerning all aspects of contract administration and construction. Within five (5) days after notice of contract award, the Contractor shall submit in writing to the authorized Representative of the Contracting Officer the qualifications and background history of the proposed interpreter for approval. The Authorized Representative of the

Contracting Officer shall have the explicit right to determine acceptability or rejection of the proposed individual. In addition, the Contractor shall be responsible to replace said individual upon notification by the Government should performance become inadequate during the contract period. The interpreter shall attend the preconstruction conference.

H.26

#### 52.0000-4412 TEMPORARY TOILET FACILITY

The Contractor shall provide temporary toilet facility for use of his personnel. The toilet facility shall be constructed to size and design shown on Drawing No. 40-01-99, sheet 1, where directed. Upon completion of the contract, such facility shall be disposed of by the Contractor outside the limits of Government-controlled land and at his responsibility and expense.

H.27

#### 52.0000-4413 TYPHOON AND STORM PREPARATIONS

In order to minimize damage to public properties and prevent personal injury, the following actions will be taken upon declaration of the typhoon conditions described below. The Contractor shall insure that the construction sites are well prepared for protection from the damages of heavy rain and strong winds. The Contractor will develop and establish the necessary procedures to be taken for storm preparation and provide in his accident prevention plan, Part I, emergency phone numbers and addresses where at least three (3) officials of the company may be reached and notified in the event that an immediate typhoon alert is declared.

(a) Typhoon Condition 3. When CONDITION THREE (Destructive winds possible within 48 hours) is declared, the Contractor shall:

(1) Clean and remove all loose debris and waste including scrap wood and metal, empty barrels and concrete form materials no longer required on the job site, to a safe area for proper disposition.

(2) Secure, tie down and anchor construction field office and storage facilities, scaffolding, concrete forms and supports, doors, windows, opening covers, stored lumber and other materials, mechanized construction equipment, temporary power lines and supports, and other items that may be blown away or that might cause injury or damage.

(3) Inspect all excavation and trenching work in process, and provide necessary temporary drainage and proper protection and

shoring for excavation sides and openings, in order to prevent damage to public roads and facilities by slides or flooding. Accumulation of water in the excavation or structure foundation work will be controlled and minimized.

(b) Typhoon Condition 2. When CONDITION TWO (Destructive winds anticipated within 24 hours), is declared, the work required at remote areas such as off-shore facilities or high elevations will cease immediately and the workers will be evacuated to a safe area. During condition two, the Contractor will continue the actions described in paragraph (a) above and the construction site will be inspected for storm preparation by the Contracting Officer's representative. The Contractor shall request an inspection by calling the Contracting Officer's representative at the appropriate Japan District field office.

(c) Typhoon Condition 1. When CONDITION ONE (Destructive winds imminent or anticipated within 12 hours) is declared all work will cease immediately and the contractor's representative shall insure that all necessary storm preparations, including the items listed below, are completed.

(1) All electrical circuits and equipment including temporary power lines are cut off and secured against unauthorized use.

(2) Gas cylinders, hot work equipment and flammable materials properly stored at a safe area.

(3) No igniting source is present.

(4) All workers have been evacuated from the construction site. When condition one is declared without the normal progression through Condition 3 and/or 2, the Contractor will take the actions listed in paragraph (a) above, and also follow the procedures described herein.

(d) High Wind Warnings. When wind gusts of 30 knots per hour or greater are forecast, the contractor will be required to perform general area cleanup in accordance with paragraphs (a)(1) and (a)(2) above; i.e., to bundle and securely tie or security cover and weight small wooden items, to remove and secure light weight barricades and to remove loose material from roofs and other high unprotected areas.

(e) Investigation of Typhoon Damages. When "ALL CLEAR" is declared, the Contractor may resume normal activities. The construction site will be investigated for all damage caused by the typhoon or high winds and the result of the investigation will be furnished in verbal or written form to the Contracting Officer's representative as soon as practicable.

H.28

52.0000-4414 SHOP DRAWINGS

If reproduced copies are to be submitted, the minimum acceptable type of print for shop drawings and other data required hereinafter shall be a permanent copy, blue or black print on white background, having a weight of not less than 20-pound bond. Prints submitted shall be sharp, clear, and shall show all minute details. Sizes of shop drawings shall be in accordance with Drawing No. 40-05-13, sheet 1. Shop drawings means drawings, submitted to the Government by the Contractor, subcontractor, any lower tier subcontractor pursuant to a construction contractor, showing in detail (1) the proposed fabrication and assembly of structural elements and (2) the installation (i.e., form, fit, and attachment details) of material of equipment. Shop drawings for each separate item of equipment shall contain a reference to the specific contract drawings on which the equipment item appears. Shop drawings and schedules of all trades shall be submitted only by the contractor, who shall certify, with each submittal of shop drawings, by a signed stamp on the drawings that he has reviewed the shop drawings in detail and that they are correct and in strict conformance with the contract drawings and specifications, except as may be otherwise explicitly stated, and has been checked for dimension and relationship with work of all other trades involved. These drawings shall be submitted as soon as practicable and within the time stated in the respective section of the specifications (in sufficient time to allow 30 days for review, if not otherwise specified). Shop drawings shall be submitted in logical order to facilitate proper coordination. Shop drawings for all work of a section of the specification shall be submitted concurrently; no consideration will be given to partial groups submitted from time to time.

H.29

52.0000-4416 COORDINATION OF GOVERNMENT PROPERTY

a. The Contractor shall submit, as necessary, to the Government, within thirty (30) calendar days after date of receipt of Notice to Proceed:

(1) An itemized list of Government property, if any, to be salvaged (GSP) with anticipated dates this property will be turned over to the Government by the Contractor.

(2) An itemized list of Government-Furnished Property (GFP), if any, with dates this property is anticipated to be required by the Contractor.

b. The above lists will be used by the Government for scheduling purposes. (If changes to the lists are made following initial submittal, these changes shall be made in writing and provided to the Government.)

H.30

52.0000-4419 REFERENCE TO SUBMITTAL PROCEDURE

Whenever the statement appears in the specifications to the effect that the submittals shall be made in accordance with Special Contract Requirements, it shall be construed to mean "the submittal shall be made in accordance with CLAUSE, entitled Submittal Procedures", of the specifications".

H.31

52.0000-4420 UTILITY OUTAGES

Interruptions to existing utilities shall be held to a minimum. Outages to facilitate connections to existing systems shall be scheduled to take place during "OFF PEAK" periods, or during periods of minimum demand. The Contractor shall submit a planned schedule of outages to the Contracting Officer for proper coordination with existing facilities, and shall notify the Contracting Officer in writing not less than 15 days for all utilities, in advance of the intended interruptions. No utility outage will be permitted until the Contractor receives written approval from the Contracting Officer.

H.32

52.0000-4421 PROJECT SIGN (NON-AIR FORCE)

The Contractor shall provide one project sign fabricated to size and design shown on Drawing No. 40-21-01(R) at Section J. The sign shall be rigidly formed and erected at location designated by the Contracting Officer prior to commencement of work. A blue-line drawing of different letter sizes and style will be made available by the Contracting Officer to the Contractor, upon request. Prior to painting the sign, the Contractor shall submit for approval a sketch, similar to Drawing No. 40-21-01(R), indicating the actual information for the project. The sketch shall indicate lettering dimensions and locations. The Corps of Engineers castle logo shall be painted red per Drawing No. 40-21-06. No separate payment will be made for the sign, and all costs in connection therewith shall be included in the contract price for the project. The sign will be subject to the approval of the Contracting Officer. Upon completion of work under this contract, the project sign shall be removed from the job site and shall remain the property of the Contractor.

H.33

52.0000-4424 SPECIAL REQUIREMENTS

a. Clause 52.0212-0008 entitled "Defense Priority and Allocation Requirements", and 52.0212-0007 entitled "Notice of Priority Rating for National Defense Use" do not apply to work and services related to Military

Family Housing and DODDS projects.

b. See Section J, Appendix "E", for additional special requirements.

c. See Section J, Appendix "F", for additional information concerning standards of measurements.

d. The contractor will be allowed to work Monday through Friday from 0800 through 1630 hours, except U.S. Holidays. Clean-up will be completed by 1630 hours daily.

e. The contractor must be able to work on three (3) WORK REQUESTS simultaneously.

f. The using agency shall move all palletized or stacked materials to provide at least five (5) feet of clearance to all surfaces to be painted. Requests from the contractor to move palletized or stacked material shall be made at least 48 hours in advance of the Contractor's desired commencement of work in the work area.

g. The contractor shall ensure that everything adjacent to the work area is protected in such a way as to prevent any damage due to painting overspray, splatter, spillage or anything else resulting from contractor performance under this contract.

h. The contractor shall develop and update a work schedule for the work to be accomplished under each of the WORK REQUESTS as issued to him. The schedule shall be updated on a daily basis.

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H.34

52.0000-4501 UNIFORM CONTRACT FORMAT

In accordance with the Uniform Contract Format, the following sections in the solicitation will not be physically included in the resultant contract as though furnished in full text therewith; however they are incorporated in and form a part of the contract file at U.S. Army Engineer District, Japan:

|           |  |
|-----------|--|
| Section K | Representations, Certifications and Other Statements of Offerors |
| Section L | Instructions, Conditions, and Notices to Offerors                |
| Section M | Evaluation Factors for Award                                     |

H.35

52.0000-4510 ISSUANCE OF DELIVERY ORDERS AND WORK REQUESTS

(a) Services to be furnished under this contract will be ordered by the issuance of Delivery Orders to the Contractor citing the funds to be used in making payments, aggregate total amount of work requests to be issued under the Delivery Order, and the period during which the WORK REQUESTS will be issued to the Contractor. The Delivery order shall contain a statement similar to the following:

"This Delivery Order is issued to provide the services listed under the "Bidding Schedule" of Contract No. DACA79-\_\_-D-\_\_ for the period \_\_\_\_\_ through \_\_\_\_\_. Individual Work Requests will be issued on a separate form. The Aggregate monetary total of all work requests issued under this Delivery Order shall not exceed Y\_\_\_\_\_. Work will begin within \_\_\_\_\_ calendar days from the date of this order."

(b) During the Delivery Order period, WORK REQUESTS will be issued to the Contractor against the Delivery order. The WORK REQUESTS will identify the locations requiring the work and services, and the quantity of the work and services to be performed, and the date of building or facility availability. The WORK REQUESTS will also specify the performance time as computed in accordance with clause, entitled "COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK," of Section H, Special Contract Requirements, by the start and completion dates. All the WORK REQUESTS will be verified and signed by the Contracting Officer's representative and the Contractor

before commencement of work.

(c) Individual WORK REQUEST will be issued by the Contracting Officer or his authorized representative at least five (5) calendar days before the availability of any building or facility unless a shorter period is agreed to by the Contractor.

(d) The procedure in which WORK REQUESTS will be issued is as follows:

(1) The Contractor shall be required to pick up WORK REQUEST from the Contracting Officer's representative on each workday between 8:00 A.M. and 4:00 P.M. at a destination set by the Contracting Officer's representative.

(2) The date of issue will be considered the date the WORK REQUEST is ready for pickup.

(3) With the concurrence of the Contracting Officer's representative, the Contractor shall be permitted to telephonically contact the designated distributor of the WORK REQUEST to determine if any WORK REQUEST is ready for pickup on the following workday. Such calls will be accepted between 3:30 P.M. and 4:30 P.M. The Contracting Officer's representative reserves the right to end these telephonic checks in the event he deems its purpose unwarranted or abused.

H.36

#### 52.0000-4511 WORK REQUEST LIMITATIONS

(a) Minimum Work Request. When the Government requires supplies or services covered by this contract in an amount of less than \$1,000,000 the Government is not obligated to purchase, nor is the Contractor to furnish, those supplies or services under the contract.

(b) Maximum Work Request. The Contractor shall not be obligated to honor any work request for a combination of items which require work of more than \$100,000,000.

(c) If this is a requirements contract (i.e., includes the Requirements clause), the Government is not required to order a part of any one requirement from the Contractor if that requirement exceeds the maximum work request limitations in paragraph (b) above.

(d) The Contractor has the right to refuse, by written notice within five (5) days of issue, any additional or subsequent WORK REQUEST(s) which

will, in aggregate, require the Contractor to do work in the amount greater than the maximum work request amount within a period of ninety (90) calendar days. If the Contractor refuses a work request, the Government may acquire the supplies and services from another source.

(e) Notwithstanding paragraphs (b), (c) and (d) above, the Contractor shall honor any work request exceeding the maximum work request limitations in paragraph (b), unless that work request(s) are returned to the ordering office within five (5) days after issuance, with written notice stating the Contractor's intent not to ship the item (or items) called for and the reasons. Upon receiving this notice, the Government may acquire the supplies or services from another source.

H.37

#### 52.0000-4512 STORAGE SHED, SHOP AND ON-SITE OFFICE ACCOMMODATIONS

The Contractor shall adhere to the following provisions as hereinafter specified. Should the Contractor require storage and office space, he shall provide his own storage shed or trailer for on-site office accommodations and for storing equipment and/or items relative to the work to be done under this contract. The Contracting Officer will afford the Contractor that area which will be required, upon request as approved by the Contracting Officer, for the portable structure mentioned above. Upon completion of all work and services under this contract, the Contractor shall vacate the premises within thirty (30) calendar days and leave the premises clean and in a condition satisfactory to the Contracting Officer.

H.38

#### 52.0000-4513 STANDARDS OF MEASUREMENT

The standards for measurement to be used in this contract are shown below. In the event that any quantity to be measured is not represented below, an agreement will be made with Contracting Officer or his authorized representative as to the multiple or factor to be used to obtain measurements that can be used to accomplish the work desired.

SF = square feet

SY = square yard

SM = square meter

LF = linear feet

LM = linear meter

CF = cubic feet

CY = cubic yard

CM = cubic meter

EA = each

H.39

52.0000-4574 VERIFICATION OF MEASUREMENTS

For those items in the "Bidding Schedule" that reflect the unit of issue indicated in the clause, entitled "STANDARDS OF MEASUREMENT," the following will apply:

(a) A joint measurement survey with the Contracting Officer or his authorized representative and the Contractor's representative shall be conducted prior to commencement of work on any location in order to avoid any disputes relative to the quantity or quantities.

(b) The Contractor shall verify the quantity or quantities listed on each WORK REQUEST prior to commencement of his work. In case any discrepancy is found on a WORK REQUEST, he shall within 24 hours report in writing such discrepancy to the Contracting Officer and not proceed with work on the WORK REQUEST.

H.40

52.0000-4515 PAYMENTS UNDER DELIVERY ORDER/WORK REQUEST(S)

Payments to the Contractor shall be made for the actual quantities of work performed by the Contractor and accepted by the Government at the stipulated unit prices in the contract under specific WORK REQUEST issued by the Contracting Officer or his authorized representative. Solely for the purpose of Contract Clause, entitled "PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS," each Delivery Order shall be considered a separate division of the work.

H.41

52.0000-4516 ORDERS

Delivery Orders/Work Requests under this contract shall contain the following information, consistent with the contract terms:

- (a) date of order; (Delivery Order/Work Request)
- (b) contract number and order number; (Delivery Order/Work Request)
- (c) item number and description, quantity ordered, and contract price: (Work Request)
- (d) delivery or performance time; (Work Request)
- (e) place of delivery or performance (including consignee): (Work Request)
- (f) accounting and appropriation data: (Delivery Order)
- (g) aggregate total amount which not to exceed; (Delivery Order)
- (h) ordering period within which the work request(s) shall be issued (Delivery order) and
- (i) any other pertinent information.

H.42

52.0000-4517 EXCLUSIONARY PARAGRAPH

In addition to the notice in paragraph (c) of the clause, entitled "REQUIREMENTS," of Section H, other military services may contract for similar requirements located in the same geographical area as those requirements described in this solicitation and resultant contract.

H.43

52.0049-4113 BASIS FOR SETTLEMENT OF PROPOSALS

"Actual costs will be used to determine equipment cost for a settlement proposal submitted on the total cost basis under FAR 49.206-2b. In evaluating a termination settlement proposal using the total cost basis, the following principles will be applied to determine allowable equipment cost:

- (1) Actual costs for each piece of equipment, or groups of similar serial or series equipment, need not be available in the contractor's accounting records to determine total actual equipment cost.
- (2) If equipment costs have been allocated to a contract using predetermined rates, those charges will be adjusted to actual costs.
- (3) Recorded job costs adjusted for unallowable and unallocable expenses will be used to determine equipment operating expenses.
- (4) Ownership costs (depreciation) will be determined using the contractor's depreciation schedule (subject to the provisions of FAR 31.205-11).
- (5) License, taxes, storage and insurance costs are normally recovered as an indirect expense and unless the contractor charges these costs directly to contracts, they will be recovered through the indirect expense rate."

H.44 52.212-0006

TIME EXTENSIONS (APR 1984)

Notwithstanding any other provisions of this contract, it is mutually understood that the time extensions for changes in the work will depend upon the extent, if any, by which the changes cause delay in the completion of the various elements of construction. The change order granting the time extension may provide that the contract completion date will be extended only for those specific elements so delayed and that the remaining contract completion dates for all other portions of the work will not be altered and may further provide for an equitable readjustment of liquidated damages under the new completion schedule.

(End of clause)

(AV 7-A03.36 1965 JAN)

H.45

52.0216-4001 ORDERING

(a) Any supplies and services to be furnished under this contract will be ordered by the issuance of Delivery Orders and subsequent WORK REQUESTS by the U.S. Army Engineer District, Japan. Such orders may be issued after the date of Notice of Award for a period of one (1) year.

(b) All Delivery Orders and WORK REQUESTS issued are subject to the terms and conditions of this contract. In the event of conflict between a Delivery Order, WORK REQUEST, and this contract, the contract, then the Delivery Order, then the WORK REQUEST shall control in that order.

H.46

52.0216-4002 REQUIREMENTS (APR 1984)

(a) This is a requirements contract for the supplies or services specified in the Schedule and is effective for a period of one (1) year, with the government option for one (1) additional year. The quantities of supplies or services specified in the Schedule are estimates only and are not purchased by this contract. Except as this contract may otherwise provide, if the Government's requirements do not result in orders in the quantities described as "estimated" or in the Schedule, that fact shall not constitute the basis for an equitable price adjustment.

(b) Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering clause. Subject to any limitations

in the WORK REQUEST LIMITATIONS clause or elsewhere in this contract, the Contractor shall furnish to the Government all supplies or services specified in the Schedule and called for by orders issued in accordance with the Ordering clause. The Government may issue orders requiring delivery to multiple destinations or performance at multiple locations.

(c) The estimated quantities are not the total requirements of the Government activity specified in the Schedule, but are estimates of requirements in excess of the quantities that the activity may itself furnish within its own capabilities. Except as this contract otherwise provides, the Government shall order from the Contractor all of that activity's requirements for supplies and services specified in the Schedule that exceed the quantities that the activity may itself furnish within its own capabilities or by separate contracting actions.

(d) The Government is not obligated to purchase from the Contractor requirements in excess of any limit on total orders under this contract.

(e) If the Government urgently requires delivery of any quantity of an item before the earliest date that delivery may be specified under this contract, and if the Contractor will not accept an order providing for the accelerated delivery, the Government may acquire the urgently required goods or services from another source.

(f) Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided that the Contractor shall not be required to make any deliveries under this contract two (2) years and six (6) months from the date of notice of award. [FAR 52.216-21]

H.47 52.217-0009

#### OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 1989)

(a) The Government may extend the term of this contract by written notice to the contractor within the time specified in the schedule ; provided, that the Government shall give the Contractor a preliminary written notice of its intent to extend at least 60 days before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option provision.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed two (2) years.  
(End of clause)

H.48 52.236-0001

PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984)

The Contractor shall perform on the site, and with its own organization, work equivalent to at least twenty (20) percent of the total amount of work to be performed under the contract. This percentage may be reduced by a supplemental agreement to this contract if, during performing the work, the Contractor requests a reduction and the Contracting Officer determines that the reduction would be to the advantage of the Government.

(End of clause)  
(R 7-603.15 1965 JAN)  
(R 1-18.104)

H.49 52.236-0017

LAYOUT OF WORK (APR 1984)

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 to the Contractor.

(End of clause)  
(R 7-604.3 1965 JAN)

H.50

52.0236-4001W00 CONTRACT DRAWINGS, MAPS, AND SPECIFICATIONS  
(DEC 1991)

(a) The Government--

(1) Will provide the Contractor, without charge, \_\_\_\_\_ sets (five unless otherwise specified) of specifications and drawings or sketches; and

(2) Will furnish additional sets on request, for the cost of

reproduction.

(b) Omissions from the drawings or specifications or the misdescription of details of work which are manifestly necessary to carry out the intent of the drawings/sketches and specifications, or which are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work, but shall be performed as if fully and correctly set forth and described in the drawings/sketches and specifications.

(SEE APPENDIX "A" FOR LIST OF DRAWINGS)

(End of clause)

H.51 52.245-0003

IDENTIFICATION OF GOVERNMENT-FURNISHED PROPERTY (APR 1984)

(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 f.o.b. railroad cars 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 or detention charges, 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.

(End of clause)

(R 7-605.28 1968 SEP)

END OF SECTION H

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