

2. AMENDMENT/MODIFICATION NO. <b>0001</b>	3. EFFECTIVE DATE <b>12 MAY 2000</b>	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. <i>(If applicable)</i>
----------------------------------------------	-----------------------------------------	----------------------------------	---------------------------------------

6. ISSUED BY <b>LOS ANGELES DISTRICT, CORPS OF ENGINEERS P.O. BOX 532711 LOS ANGELES, CALIFORNIA 90053-2325</b>	7. ADMINISTERED BY <i>(If other than Item 6)</i>
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8. NAME AND ADDRESS OF CONTRACTOR <i>(No., street, county, State and ZIP Code)</i>	(✓)	9A. AMENDMENT OF SOLICITATION NO. <b>DACW09-99-B-0008</b>
	(X)	9B. DATED <i>(SEE ITEM 11)</i> <b>23 MAY 2000 (BID OPENING)</b>
		10A. MODIFICATION OF CONTRACTS/ORDER NO.
		10B. DATED <i>(SEE ITEM 13)</i>

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

**12. ACCOUNTING AND APPROPRIATION DATA *(If required)***

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

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

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

**14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)***  
**EAST AND WEST JETTY REPAIRS, PORT HUENEME, VENTURA COUNTY, CALIFORNIA**

**\*\*THE FOLLOWING SECTIONS AND DRAWINGS are amended.\*\***  
**SECTION 01200, GENERAL REQUIREMENTS**  
**SECTION 02001, ACCESS FOR CONSTRUCTION**  
**SECTION 02380, SHORELINE/ COASTAL PROTECTION FOR STRUCTURES**  
**DRAWINGS (District File Numbers) B-1989, B-1991, B-1992, B-1994.**

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

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

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## SECTION 01200

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## SECTION 01200

## GENERAL REQUIREMENTS

## 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 basic designation only.

## Code of Federal Regulations (CFR)

CFR 29	Part 1926	Safety and Health Regulations for Construction
CFR 33	Part 80	Colregs Demarcation Lines
CFR 33	Part 156	Oil and Hazardous Material Transfer Operations

## CORPS OF ENGINEERS (COE)

EM 385-1-1	(1996) U.S. Army Corps of Engineers Safety and Health Requirements Manual
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## U.S. Department of Commerce, (DOC)

DOC PS 1	(1983) Construction and Industrial Plywood
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## Federal Specifications (FS)

FS FF-B-575	(Rev C) Bolts, Hexagon and Square
FS FF-N-105	(Rev B; Int Am 4) Nails, Brads, Staples and Spikes: Wire, Cut and Wrought
FS FF-N-836	(Rev D; Am 2) Nut: Square, Hexagon, Cap, Slotted, Castle, Knurled, Welding and Single Ball Seat
FS MM-L-751	(Rev H) Lumber; Softwood
FS TT-E-529	(Rev D) Enamel, Alkyd, Semi-Gloss
FS TT-P-25	(Rev E; Am 2) Primer Coating, Exterior (Undercoat for Wood, Ready-Mixed, White and Tints)

## 1.2 SUBMITTALS

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

SD-08 Statements

Site Safety Health Plan; GA.

### 1.3 PROJECT FACILITIES

The Contractor shall construct and/or erect the following project facilities.

#### 1.3.1 Construction Signs

Signs shall be erected as soon as possible and within 10 days after commencement of work under this contract shall include:

Project Sign at location designated by the Contracting Officer.

Warning Signs facing approaching traffic on all haul roads crossing under overhead power transmission lines.

Hard hat signs at locations directed.

A Digging Permit shall be obtained from the Navy Utilities Branch prior to the work.

#### 1.3.2 Bulletin Board at the Contractor's office

A weatherproof bulletin board, approximately 36 inches wide and 30 inches high, with hinged glass door shall be provided adjacent to or mounted on the Contractor's project office. If adjacent to the office, the bulletin board shall be securely mounted on no less than 2 posts. Bulletin board and posts shall be painted or have other approved factory finish. The bulletin board shall be easily accessible at all times and shall contain wage rates, equal opportunity notice, and such other items required to be posted.

### 1.4 CONSTRUCTION SIGNS

#### 1.4.1 Materials

Lumber shall conform to FS MM-L-751, and shall be seasoned Douglas Fir, S4S, Grade D or better except that posts, braces and spacers shall be construction Grade (WCLB).

Plywood shall conform to NIST PS 1, grade A-C, Group 1, exterior type.

Bolts, Nuts and Nails. Bolts shall conform to FS FF-B-575, nuts shall conform to FS FF-N-836, and nails shall conform to FS FF-N-105.

Paints and Oils. Paints shall conform to FS TT-P-25 for primer and TT-E-529 for finish paint and lettering.

#### 1.4.2 Construction

Project and hard hat signs shall be constructed as detailed in Figures 1, 2, and 3. Decals will be furnished by the Contracting Officer.

Warning Signs shall be constructed of plywood not less than 1/2 inch thick and shall be securely bolted to the supports with the bottom of the sign face 3 feet above the ground. The sign face shall be 2 x 4 feet, all letters shall be 4 inches in height, and the wording shall be: "WARNING: OVERHEAD TRANSMISSION LINES."

Painting. All exposed surfaces and edges of plywood shall be given one coat of linseed oil and be wiped prior to applying primer. All exposed surfaces of signs and supports shall be given one coat of primer and 2 finish coats of white paint. Except as otherwise indicated, lettering on all signs shall be black and sized as indicated.

#### 1.5 CONTRACTING OFFICER'S FACILITY

The Contractor shall provide as a minimum, a separate room in the Contractor's project field office (trailer) for the Contracting Officer's Representative. The room shall be accessed by an outside door (locked) separate from the Contractor's entry door. The room shall not be less than 3 meters wide by 5 meters long, and shall contain a suitable desk and chair as approved by the Contracting Officer, with 2 telephone lines, service, and 1 telephone; 1 file cabinet, minimum 3 drawer, legal, lockable; and access to a copy machine and a facsimile machine.

#### 1.6 MAINTENANCE AND DISPOSAL OF PROJECT FACILITIES

The Contractor shall maintain the project facilities in good condition throughout the life of the project. Upon completion of work under this contract, the facilities covered under this section will remain the property of the Contractor and shall be removed from the site at his expense.

#### 1.7 PUBLIC UTILITIES

##### 1.7.1 General

The approximate location of all railroads, pipe lines, power and communication lines, and other utilities known to exist within the limits of the work are indicated on the drawings. The sizes, locations, and names of owners of such utilities are given from available information, but their accuracy is not guaranteed. Except as otherwise indicated on the drawings, all existing utilities will be left in place and the Contractor shall conduct his operations in such a manner that the utilities will be protected from damage at all times, or arrangements shall be made by the Contractor for their relocation at the Contractor's own expense. The Contractor shall be responsible for any damage to utilities known to exist

and shall reimburse the owners for such damage caused by his operations.

#### 1.7.2 U.S. Navy Submarine Cables

(Deleted)

#### 1.7.3 Utilities Not Shown

If the Contractor encounters, within the construction limits of the entire project, utilities not shown on the plans and not visible as of the date of this contract and if such utilities will interfere with construction operations, he shall immediately notify the Contracting Officer in writing to enable a determination by the Contracting Officer as to the necessity for removal or relocation. If such utilities are left in place, removed or relocated, as directed by the Contracting Officer, the Contractor shall be entitled to an equitable adjustment for any additional work or delay.

#### 1.7.4 Coordination

The Contractor shall consult and cooperate with the owner of utilities that are to be relocated or removed by others to establish a mutual performance schedule and to enable coordination of such work with the construction work. These consultations shall be held as soon as possible after award of the contract or sufficiently in advance of anticipated interference with construction operations to provide required time for the removal or relocation of affected utilities.

#### 1.7.5 Utilities To be Relocated or Protected

The Contractor shall notify the Contracting Officer, in writing, 14 calendar days prior to starting work on any utility to be relocated or protected. On each relocation, notification shall include dates on which the Contractor plans excavation, by-pass work, removal work and/or installation work, as applicable.

#### 1.7.6 Electric Current

All electric current required by the Contractor shall be furnished at his expense. All temporary lines shall be furnished, installed, connected, and maintained by the Contractor in a workmanlike manner satisfactory to the Contracting Officer and shall be removed by the Contractor in a like manner at his expense prior to final acceptance of the construction.

### 1.8 NOTICES

#### 1.8.1 Traffic Routing

The Contractor shall notify the Contracting Officer 14 days in advance of the time work will be started in areas requiring the rerouting of traffic, traffic lane striping, and removal of street signs. The foregoing shall apply to progressive modifications of traffic routing within an area in which work is in progress.

#### 1.8.2 Existing Bench Marks and R/W Markers

The Contractor shall notify the Contracting Officer, in writing, 7 days in advance of the time he proposes to remove any bench mark or right-of-way marker.

#### 1.8.3 United States Coast Guard

The Contractor shall notify the Commander, Eleventh Coast Guard District, and the Coast Guard Marine Safety Office - Long Beach not less than 14 calendar days prior to commencing work. The notifications, via letter or facsimile (with copy provided to the Contracting Officer), shall include as a minimum the following information:

- a. Project description and location including latitude/longitude (NAD 83).
- b. Size and displacement of any floating construction equipment.
- c. Name and radio call signs for working vessels.
- d. 24-hour telephone number for on-site contact and name of project engineer.
- e. Work start and completion dates.
- f. Potential hazards to navigation.

Mail address:

Commander (oan)  
Eleventh Coast Guard District  
Building 50-6  
Coast Guard Island  
Alameda, CA 94501-5100  
ATTN: Daryl Gibbons  
TEL (510) 437-2980 FAX (510) 437-2961

U.S. Coast Guard  
Marine Safety Office  
165 North Pico Avenue  
Long Beach, CA 90802-1096  
ATTN: Port Safety and Security  
TEL (562) 980-4454 FAX (562) 980-4415

#### 1.8.4 Aids to Navigation

The Contractor shall not remove, relocate, obstruct, willfully damage, make fast to, or interfere with any aids to navigation unless specifically noted as part of this work. The U.S. Coast Guard has authority for moving or relocating aids to navigation. The Contractor shall notify the Eleventh Coast Guard District (address and telephone number above) in writing with a copy to the USCG Marine Safety Office - Long Beach, and the Contracting Officer, not less than 14 calendar days in advance of the time he plans to operate marine equipment adjacent to any aids to navigation which requires relocation or removal.

#### 1.8.5 United States Navy

The Contractor shall notify the United States Navy (with copy provided to

the Contracting Officer), Port Operations, 1000 23<sup>rd</sup> Avenue, Port Hueneme, CA, 93044-4301, 805-982-6929, Attn: Andru Ortiz, prior to the commencement of operation.

#### 1.8.6 Port of Hueneme

The Contractor shall notify the Port of Hueneme (with copy provided to the Contracting Officer), Oxnard Harbor District, 333 Ponomo Street, Port Hueneme, CA, 93044-0608, 805-488-3677, Attn: Pete Wallace, prior to the commencement of operation.

### 1.9 RESTRICTIONS

#### 1.9.1 Obstruction of Channel

The Government will not undertake to keep the harbor entrance or navigation channels free from vessels or other obstructions. The Contractor will be required to conduct the work in such a manner as to obstruct navigation as little as possible, and in case the Contractor's plant so obstructs the channel as to make difficult or endanger the passage of vessels, said plant shall be promptly moved on the approach of any vessel to such an extent as may be necessary to afford a practicable passage. Upon the completion of the work, the Contractor shall promptly remove his plant, including ranges, temporary buoys, and piles and other marks placed by him under the contract in navigable waters or on shore.

#### 1.9.2 Local Restrictions

The following restrictions apply to the construction operations conducted at the Port Hueneme:

- a. No permanent wharf space and/or slip space is provided. Temporary wharf and/or slip space within the Oxnard Harbor District may be available on a space-available basis and is subject to revocation upon limited notice to the Contractor. The use of any wharf and/or slip space within the Oxnard Harbor District Port is subject to Terminal Tariff No. 7.
- b. Emergency dock space and/or slip space shall be coordinated as the need arises through the Port of Hueneme, Oxnard Harbor District, 333 Ponomo Street, Port Hueneme, CA, 93044-0608, 805-488-3677, Attn: Pete Wallace.
- c. Material(s) transfer operations between the designated work/storage area and the harbor shall be conducted at the U.S. Navy LST Ramp, located between Wharf A and Wharf B. Maximum load capability is H15 highway loading. Current condition of the LST Ramp is poor.
- d. Construction operations shall occur between 7 AM and 7 PM Monday through Saturday, 9 AM and 7 PM Sunday.
- e. All vehicle traffic to the U.S. Navy base shall enter through the Victoria gate. Haul route shall be West Road to Pleasant Valley Channel Road to Track No. 13 Road to the harbor.

f. All Contractor employee private vehicles shall park within the designated work/storage area.

g. While on the U.S. Navy Base, all Contractor personnel are required to obtain a security pass and identification available at Building PH11.

### **1.9.3 Navigation Aid Operation**

**At least one of the navigation aids shall remain fully operational at all times.**

### 1.10 OVERSIZE LOADS

Oversize loads, over 8'6" wide, may require a Caltrans permit for hauling on State highways. P.O.C. Caltrans, Transportation Permits, P.O. Box 231, 247 W. Third Street, San Bernardino, CA, (909) 383-4637.

### 1.11 MARINE PLANT

#### 1.11.1 Marine Plant and Equipment.

All marine plant and equipment shall be inspected and certified as required under the regulation of the United States Coast Guard before being placed in service. No marine plant or equipment requiring Coast Guard inspection shall be put into use or on the job without the required certification issued by the U.S. Coast Guard Officer in Charge of Marine Inspections.

All marine construction equipment shall monitor appropriate VHF marine safety radio channels.

The Contractor's operations shall conform to the U.S. Coast Guard publication "Navigation Rules, International-Inland, INST M16672.28", latest edition.

Fuel transfer operations shall conform to U.S. Coast Guard design regulations (33 CFR 156.120).

#### **1.11.2 Floating Plant Inspection**

**(Deleted)**

### 1.12 PUBLIC SAFETY

Attention is invited to the Contract Clause: PERMITS AND RESPONSIBILITIES. The Contractor shall provide temporary fencing, barricades, and/or guards, as required, to provide protection in the interest of public safety. Whenever the Contractor's operations create a condition hazardous to the public, he shall furnish at his own expense and without cost to the Government, such flag men and guards as are necessary to give adequate warning to the public of any dangerous conditions to be encountered and he shall furnish, erect, or maintain such fences, barricades, lights, signs and other devices as are necessary to prevent accidents and avoid damage or injury to the public. Flag men and guards, while on duty and assigned to

give warning and safety devices shall conform to applicable city, county, and state requirements. Should the Contractor appear to be neglectful or negligent in furnishing adequate warning and protection measures, the Contracting Officer may direct attention to the existence of a hazard and the necessary warning and protective measures shall be furnished and installed by the Contractor without additional cost to the Government. Should the Contracting Officer point out the inadequacy of warning and protective measures, such action of the Contracting Officer shall not relieve the Contractor from any responsibility for public safety or abrogate his obligation to furnish and pay for those devices. The installation of any general illumination shall not relieve the Contractor of his responsibility for furnishing and maintaining any protective facility.

#### 1.13 OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) STANDARDS

The OCCUPATIONAL SAFETY and HEALTH ACT (OSHA) STANDARDS for CONSTRUCTION (Title 29, Code of Federal Regulations Part 1926 as revised from time to time) and the Corps of Engineers General Safety and Health Requirements Manual, EM 385-1-1, are both applicable to this contract. The most stringent requirement of the two standards will be applicable. Pursuant to EM 381-1-1, the Contractor shall submit a Site Safety Health Plan.

#### 1.14 SIGNAL LIGHTS

The Contractor shall display signal lights and conduct his operations in accordance with the General Regulations of the Department of the Army and of the U.S. Coast Guard, governing lights and day signal to be displayed by towing vessels with tows, on which no signals can be displayed, vessels working on jetties, submarine or bank protection operations, and day signals to be displayed by vessels of more than 65 feet in length moored or anchored in a fairway or channel, and the passing by other vessels of floating plant working in navigable channels, as approved by the Secretary of the Army (33 C.F.R. 201.1-201.16) and the Commandant U.S. Coast Guard (33 C.F.R. 80.18-80.31a and 33 C.F.R. 95.51-95.70).

#### 1.15 RADIO COMMUNICATION

To facilitate and insure the safe passage of vessels in the channel, the Contractor shall provide, operate and maintain on his plant, radio facilities capable of voice communication with vessels using the channel. Station licensing and frequency authorizations shall be the responsibility of the Contractor.

#### 1.16 INSPECTION

Reference is made to the contract clause entitled: INSPECTION OF CONSTRUCTION. In addition, the Contractor will be required:

- a. To furnish, on the request of the Contracting Officer or any inspector, the use of such boats, boatmen, laborers, and material forming a part of the ordinary and usual equipment and crew of the plant as may be reasonably necessary in inspecting and supervising the work.

b. To furnish, on the request of the Contracting Officer or any inspector, suitable transportation from all points on shore designated by the Contracting Officer to and from the various pieces of plant, and to and from the work areas. Should the Contractor refuse, neglect, or delay compliance with these requirements, the specific facilities may be furnished and maintained by the Contracting Officer, and the cost thereof will be deducted from any amounts due or to become due the Contractor.

c. To allow, upon the request of the Contracting Officer's Representative, authorized representatives of the California Regional Water Quality Control Board and the South Coast Air Quality Management District to: enter upon the Contractor's premises where a regulated facility or activity is located or conducted, or where records are kept; have access to and copy, at reasonable times, any records that must be kept per agency requirements; inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated by these agencies; and sample or monitor at reasonable times any substances or parameters at any location for the purpose of assuring compliance with agency regulations.

#### 1.17 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER

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:

- (1) 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.
- (2) 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.

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

#### MONTHLY ANTICIPATED ADVERSE WEATHER DAYS Work Days Based on Five (5) Day Work Week

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
5	4	3	1	0	0	0	0	0	0	1	3

Upon acknowledgment of the Notice to Proceed 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 workday. The number of actual adverse weather days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month, and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated, the Contracting Officer will convert any qualifying days to calendar days, giving full consideration for equivalent fair weather work days, and issue a modification in accordance with the Contract Clause entitled: DEFAULT (FIXED PRICE CONSTRUCTION).

#### 1.18 AS-BUILT DRAWINGS

##### 1.18.1 General

The Contractor shall prepare and furnish the as-built drawings for the project. The as-built drawings shall be a record of the construction as installed and completed by the Contractor. They shall include all the information shown on the contract set of drawings and a record of all deviations, modifications, or changes from those drawings, however minor, which were incorporated in the work, all additional work not appearing on the contract drawings, and all changes which are made after final inspection of the contract work. In event the Contractor accomplishes additional work which changes the as-built conditions of the facility after submission of the as-built drawings, the Contractor shall furnish revised and/or additional drawings as required to depict as-built conditions. The requirements for these additional drawings will be the same as for the as-built drawings included in the original submission. The drawings shall show the following information, but not be limited thereto:

(1) The location and description of any utility lines or other installations of any kind or description known to exist within the construction area. The location includes dimensions to permanent features.

(2) The location and dimensions of any changes to structures.

(3) Correct grade or alignment of roads, channels, structures or utilities if any changes were made from contract plans.

(4) Correct elevations if changes were made in site grading.

(5) Changes in details of design or additional information obtained from working drawings specified to be prepared and/or furnished by the Contractor including but not limited to fabrication, erection, installation plans and placing details, pipe sizes, dimensions of equipment foundations, etc.

(6) All changes or modifications which result from the final inspection.

##### 1.18.2 Preliminary As-Built Drawings

The Contractor shall maintain one (1) set of full size, blue-line prints marked up in red to show as-built conditions. This set of as-built prints shall be kept current and available at the job site at all times. All changes from what is shown on the contract plans, whether it be from changes requested by the Contracting Officer or resulting from additional information which might be uncovered in the course of construction, shall be accurately and neatly recorded as they occur by means of details and notes. The marked-up as-built prints will be jointly inspected for accuracy and completeness by the Contracting Officer and Contractor prior to submission of each monthly pay estimate. Information to be included on these preliminary drawings shall conform to the requirements as stated above. Any and all as-built modifications shall be reflected on all sheets affected by the modifications.

#### 1.18.3 Review Submittal

Not later than 14 calendar days after acceptance of the project by the Government, the Contractor shall deliver to the Contracting Officer one (1) full size set of blue-line drawings marked up to depict the as-built conditions. If upon review, the drawings are found to contain errors and/or omissions, they shall be returned to the Contractor for corrections.

#### 1.18.4 Computer Drawing Files (CADD)

The Contractor shall develop the final computer file as-built drawings from the approved preliminary drawings. The computer files shall be delivered in MicroStation 95 format, a Computer Aided Design and Drafting (CADD) program. Drawings shall be prepared in general accordance with the Los Angeles District manual "Standards for Drafting" and the "Standards Manual for U.S. Army Corps of Engineers Computer-Aided Design and Drafting (CADD) Systems."

#### 1.18.5 Original Contract CADD Files.

The Government will provide all the computerized drawing files, along with a listing and description of the file contents, used to produce plans to advertise this contract. The Contractor shall be responsible for downloading the computer files via the method described below.

#### 1.18.6 Receiving Data via the Corps' File Server.

A formal request for the project files shall be submitted two (2) weeks in advance of the anticipated downloading. The project files, in MicroStation (CADD) binary format, will then be stored on the file server for a period of two (2) weeks for the Contractor to retrieve via modem. The Contractor will be provided all relevant information regarding access to the server via modem or Internet address.

#### 1.18.7 Delivery

Prior to finalizing the plans, two sets of drawings shall initially be provided to the Contracting Officer for review and approval. The Contracting Officer shall complete his or her review within ten (10)

working days. Upon final approval, the Contractor shall furnish two (2) full size sets and two (2) half size sets of the final as-built plans on reproducible mylars, and the computerized project files in MicroStation format. All project files, whether revised or not, shall be provided to the Contracting Officer.

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION (NOT APPLICABLE)

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## SECTION 02001

## ACCESS FOR CONSTRUCTION

## PART 1 GENERAL

Access for construction shall include all work associated with site access and preparation. This shall include (but is not limited to) items such as access road construction, access road maintenance, access road removal, excavation performed for water-based access needs, disposal of any material excavated for access, installation and removal of fences and gates for Contractor work areas, location and protection of existing utilities, repair to any facilities damaged, and obtaining and complying with all permits (local, state, Federal). All aspects of access for construction shall be described in the Construction Plan.

## 1.1 SUBMITTALS

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

SD-08 Statements

Construction Plan; GA.

## 1.2 OVERLAND ACCESS

Reference is made to Contract Clauses: SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK and PERMITS AND RESPONSIBILITIES. The Contractor shall verify that all overland routes are fully accessible. The Contractor shall be responsible for obtaining any and all necessary licenses and permits applicable to overland access.

## PART 2 PRODUCTS (NOT APPLICABLE)

## PART 3 EXECUTION

## 3.1 EXCAVATION FOR ACCESS

## 3.1.1 Applicability

Excavation, if applicable, shall consist of the removal of every type of material encountered by the Contractor to access the east jetty and west jetty repairs for water-based access requirements.

## 3.1.2 Character of Materials

The material to be excavated will primarily consist of mixtures or layers of fine to coarse grained sand. Additional materials to be encountered may

consist of varying amounts of: mud, silt, gravel, cobbles, stone ranging up to 1.9 meters diameter, trash, lumber, metal, and other debris.

### 3.1.3 Property Preservation

All excavation operations shall be conducted in such a manner that existing jetty structures, which are to remain in place, will not be subjected to settlement or horizontal movement.

### 3.1.4 Disposal of Excavated Material

Excavation material suitable for disposal shall be placed at the disposal site as indicated on the plans. Excavation material not suitable for disposal, such as trash, tree stumps, tires, metal, and other debris, will not be permitted in the disposal area. Unsuitable material, if encountered, shall become the property of the Contractor, and shall be removed from the site at no expense to the Government.

### 3.1.5 Shoaling

Littoral transport of sand is a continuous process in the vicinity of Port Hueneme. Soundings shown on Government surveys indicate the general conditions existing only at the time of survey. Shoaling may occur after the time of survey. Historical bathymetric surveys are available for review at the Los Angeles District Office.

## 3.2 CONSTRUCTION ACCESS ROADS

**If applicable, construction access road materials shall consist of quarry materials with not greater than five percent (5%) passing the #200 sieve by weight. The use of bituminous materials, semi-fluid materials, or construction rubble materials shall be prohibited.**

-- End of Section --

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## DIVISION 02 - SITE WORK

## SECTION 02380

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## SECTION 02380

## SHORELINE/COASTAL PROTECTION FOR STRUCTURES

## PART 1 GENERAL

## 1.1 REFERENCES

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

## American Society for Testing and Materials (ASTM)

ASTM C 88	(1990) Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
ASTM C 127	(1988) Specific Gravity and Absorption of Coarse Aggregate
ASTM C 295	(1990) Petrographic Examination of Aggregates for Concrete
ASTM C 535	(1989) Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine

## Corps of Engineers (COE)

CRD-148	Accelerated Expansion
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## 1.2 SUBMITTALS

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

SD-01 Data

Scale tickets and/or records of weights; FIO.

SD-08 Statements

Construction Plan; GA.

SD-09 Reports

Daily Report of Operations; FIO.

## PART 2 PRODUCTS

## 2.1 MATERIALS

### 2.1.1 Definitions

#### 2.1.1.1 Angular Stone

Stone which is obtained from bedrock deposits and is angular in shape.

### 2.1.2 General

The Contractor shall make all arrangements, pay all royalties, and secure all permits for the procurement, furnishing and transporting of stone. The Contractor shall vary the quarrying, processing, loading and placing operations to produce the sizes and quality of stone specified. If the stone being furnished by the Contractor does not fully meet all the requirements of these specifications, the Contractor shall furnish, at no additional cost to the Government, other stone meeting the requirements of these specifications.

### 2.1.3 Stone Sources

#### 2.1.3.1 Source Authorization

Before any stone is produced from a source for completion of the work under this contract, the source of stone must be authorized by the Contracting Officer's Representative. Authorization of a stone source shall not be construed as a waiver of the right of the Government to require the Contractor to furnish stone which complies with these specifications. Materials produced from localized areas, zones or strata will be rejected when such materials do not comply with the specifications.

#### 2.1.3.2 Source Development

Before a proposed source or sources of stone will be considered for sampling and testing, the Contractor must demonstrate that the source has sufficient stone to fulfill the contract requirements. If sufficient amounts of stone conforming to these specifications are not available from a source or sources used in the work, the Contractor shall submit stone from another source for authorization.

#### 2.1.3.3 Source Documentation

Authorization of a proposed stone source will be based on test results and/or service records. In general, current Corps of Engineers test results shall be required as outlined in paragraph: Quality Compliance Testing, below. In special cases, however, the Contracting Officer's Representative may elect to use either past Corps of Engineers test results, test results from other agencies or private laboratories, or service records. A service record is considered to be acceptable if stone from the proposed source has remained sound and functional after at least 10 years of exposure on a project similar to the one to be constructed under these specifications.

## 2.1.3.4 Potential Stone Sources

Table 1 shows a few of the sources in the project area which have either undergone recent quality compliance testing for use on Corps of Engineers projects or have acceptable service records:

Table 1 Stone Sources

<u>Source Name</u>	<u>Nearest City</u>
Harlow	Corona
Corona-Pacific	Corona
All-American Asphalt	Corona
3M	Corona
Eagle Valley	Corona
Pebbly Beach	Catalina
Ormond (Atkinson)	Riverside
Slover Mountain	Colton
Fish Canyon	Azusa
Gillibrand	Newhall
Pyrite Street	Riverside

Listing of a stone source is not to be construed as to current or future availability of the source, authorization of all materials from the source, nor as a waiver of inspection and testing of the source. Stone produced from any listed source must meet all the requirements set forth in these specifications. Listing of a stone source is also not to be construed as an indication that the source can produce the total quantity of stone required for the project. Stone may be furnished from other sources designated by the Contractor and authorized by the Contracting Officer's Representative subject to the conditions stated herein.

## 2.1.4 Stone Quality

## 2.1.4.1 Quality Compliance Testing

Samples for Corps of Engineers testing as specified in paragraph: Source Documentation shall be submitted a minimum of 10 days in advance of the time when the stone will be required in the work. Stone from a proposed source will be tested by the Government for quality compliance. The first test shall be at Government expense, however, if the stone fails the test(s), or if the Contractor desires to utilize more than one source, additional testing will be performed by the Government at the Contractor's expense. The cost of additional testing will be deducted from payment due the Contractor in the amount of \$550 for each sample tested for LA Abrasion, Absorption, and Specific Gravity, and an additional \$2500 per sample tested for Sulfate Soundness, Accelerated Expansion, Petrographic, and X-Ray Diffraction only. All test samples (135 kilograms minimum) shall be representative of the stone source and shall be obtained by the Contractor under the supervision of the Contracting Officer's Representative and delivered at the Contractor's expense to a testing laboratory approved by the Contracting Officer's Representative.

## 2.1.4.2 Stone Quality Testing Requirements

Stone shall be subjected to such tests as are necessary to demonstrate to the satisfaction of the Contracting Officer that the materials are acceptable for use in the work. As a minimum, the stone shall meet the following test requirements.

<u>Test</u>	<u>Test Method</u>	<u>Requirement</u>
Specific Gravity (Bulk SSD)	ASTM C 127	2.65 minimum
Absorption	ASTM C 127	2% maximum
Abrasion Loss	ASTM C 535	50% maximum loss <sup>(1)</sup>

In addition to the above tests, the Contracting Officer will have the option to require a subsequent round of testing with the additional tests, as listed below, as well as being subjected to a petrographic and X-Ray Diffraction analysis in accordance with ASTM C 295<sup>(3)</sup>. The stone must not contain any expansive clays.

<u>Test</u>	<u>Test Method</u>	<u>Requirement</u>
Sulfate Soundness	ASTM C 88 <sup>(2)</sup>	10% maximum loss
Accelerated Expansion	COE CRD-148	15% maximum loss

NOTE: (1) Stone which has a loss greater than the specified limit will be accepted if the Contractor demonstrates that the stone has a satisfactory service record.

NOTE: (2) The test shall be made on 50 particles each weighing 100 grams, +/-25 grams, in lieu of the gradation given in ASTM C 88.

NOTE: (3) The laboratory test procedure for petrographic and X-Ray Diffraction is performed according to ASTM C 295, except for the following requirements, which shall be added to each petrographic test run by the laboratory:

- a. A color, microscopic photograph shall be made of stone type and the individual minerals within the stone shall be identified by labels and arrows upon the photograph.
- b. A very detailed macroscopic and microscopic description shall be made of the stone, to include the entire mineral constituents, individual sizes, their approximate percentages and mineralogical histories. A description of the stone hardness, texture, weathering and durability factors shall also be discussed.
- c. A written summary of the suitability of stone based on the Petrographic and X-Ray Diffraction tests and the results of ASTM C 535 shall be presented in the final laboratory report on stone quality.

#### 2.1.4.3 Stone Acceptance Criteria

Prior to placement, all stone shall be subject to acceptance by the Contracting Officer. Acceptance of any stone shall not constitute acceptance of all stone from a source. All accepted stone shall be:

a. of the same lithology as the original stone from which test results or service records were taken as a basis for authorization of the source.

b. sound, durable and hard, and free from laminations, weak cleavages, undesirable weathering, or blasting or handling-induced fractures (or fracture zones which subtend more than 1/3 of the total circumference of the stone along the plane of fracturing).

c. of such character that it will not disintegrate from the action of air, water, or the conditions of handling and placing.

d. clean and free from earth, clay, refuse, or adherent coatings.

e. angular with a shape which assures interlocking with adjacent capstone, and with the greatest dimension of each piece not greater than 3 times the least dimension.

#### 2.1.5 Gradation

##### 2.1.5.1 General

Specified grading of all **new** material shall be met both at the source and as delivered to the project. In addition, material not meeting the required grading due to segregation or degradation during placement shall be rejected. If test results show that stone does not meet the required grading, the hauling operation will be stopped immediately and will not resume until processing procedures are adjusted and a gradation test is completed showing gradation requirements are met. All gradation tests shall be at the expense of the Contractor. The relationship between stone weight in the table below is based on a specific gravity of 2.65.

##### 2.1.5.2 Gradation of the A-11 Armor Stone

**New armor stone may be required for reconstructing portions of the existing armor layer. This new armor stone shall be designated "A-11 Armor Stone".**

The Contractor shall be responsible for maintaining the A-11 armor stone gradation indicated in these specifications. The Contractor shall provide proof of compliance to the Contracting Officer's Representative by supplying the total number of A-11 armor stones and specifying the individual weights of each stone (in metric tons) in each barge and/or truck load of A-11 armor stone. If truck or rail is used to move stone from a quarry to a barge loading area, this same documentation (total number of stones, individual weight of each stone) will be supplied to the Contracting Officer's Representative for each truck or rail load or stockpile prior to loading of any barge.

A compilation of the weights of individual stones delivered shall be supplied in the Daily Report of Operations for comparison with the A-11 armor stone gradations indicated in these specifications. If at any time the Contracting Officer's Representative determines that re-weighing of the stones is necessary on any barge load or other delivery unit, this action will constitute a gradation test.

A-11 armor stone shall be quarried, angular stone reasonably well distributed within the limits specified in Table 2.

Table 2. A-11 Armor Stone Gradation

Weight of Individual Pieces (Metric Ton)	Percent Smaller (by total number)
14.0	100
11.0	30-50
9.0	0

#### 2.1.6 Rejected Stone

New stone of unsuitable quality and/or size distribution as required by these specifications shall be rejected. Any rejected stone shall be promptly removed from the project at no expense to the Government. Any portions of the work covered by these specifications containing rejected stone will be considered incomplete.

### PART 3 EXECUTION

#### 3.1 CONSTRUCTION PLAN

The Contractor shall submit a Construction Plan indicating the methods and equipment proposed to conduct all construction related operations. The plan shall be submitted to the Contracting Officer for approval not less than 10 days prior to the start of construction operations. The plan shall include as a minimum, but is not limited to, the following information:

- Order of work and all proposed time lines.
- Operation/use of the work/storage area.
- Layout of all vessels, barges, buoys, anchors, and ancillary equipment.
- Site access route(s).
- Site preparation requirements.

#### 3.2 DAILY REPORT OF OPERATIONS

The Contractor will be required to prepare and maintain a Daily Report of Operations and furnish copies thereof to the Contracting Officer's Representative. The daily reports shall document all construction related operations for all shifts in a 24-hour period. Further instruction on the preparation of the report shall be provided.

#### 3.3 PLACEMENT OF SHORELINE PROTECTION

##### 3.3.1 Debris

Any timbers, unsatisfactory material and debris within the reaches for construction shall be removed except as otherwise directed by the Contracting Officer, and upon removal shall become the property of the Contractor. All materials shall be properly disposed of in accordance with

the requirements of Section 01354 ENVIRONMENTAL PROTECTION, including any applicable local requirements.

### 3.3.2 Armor Stone

A-11 armor stone shall be placed in the locations and at the thickness shown without deviating from the lines and grade shown, including allowance for tolerances. Final shaping of the slope shall be performed concurrently with the initial placement of the stone. Stones shall be randomly selected and set in contact with each other so that the interstices between adjacent stones shall be as small as the character of the stone will permit. Stones shall be interlocked or keyed in with adjacent stones by rotating and setting them for maximum contact based on their angular shapes. Three points of contact (minimum) are required between a stone and adjacent stones. In general, the long axis of each stone shall be perpendicular to the axis of the structure and slope downward toward the center of the structure. Placement shall begin at the bottom of the slope. Stones shall be placed in a manner to avoid displacing underlying materials or placing undue impact force on underlying material that would cause the breaking of stones. Dropping of armor stone shall not be permitted. The equipment used in placing the stone shall be suitable for handling materials of the sizes required including the ability to place the stone over its final position before release and if necessary pick up and reposition the stone. Dragline buckets and skips shall not be used in placement. Moving stone by drifting or manipulating down the slope will not be permitted. The finished work shall be a well distributed mass, free of pockets of either smaller or larger stone, having a minimum of voids and with the maximum interlocking of stones.

### 3.3.3 Reset Existing Capstone

The work consists of moving and resetting existing capstone on the seaward side, harbor side, and crest of the jetty(ies) as appropriate. **Existing armor stone on the east jetty and west jetty shall be designated "Existing Capstone" and varies between approximately 4 to 14 metric tons. Existing stone smaller than 4 tons shall be considered an incidental part of the work.** Existing capstone shall be removed, salvaged, and reset to achieve the required interlocking with newly placed stone. Moving and resetting of existing capstone shall be in accordance with the applicable portions of paragraph: "Armor Stone". Temporary storage may be necessary between lifting and final placing.

### 3.3.4 Demonstration Section

#### 3.3.4.1 General

Prior to placement of any A-11 armor stone or existing capstone, the Contractor shall construct a section of jetty repairs to demonstrate proposed operations. The section shall demonstrate procedures, methods, equipment, and capability for placing new A-11 armor stone and resetting existing capstone within the tolerances specified. The demonstration section shall consist of the location as identified in the plans. The quantities and gradation of all materials placed within the section shall be accurately tabulated and provided immediately to the Contracting

Officer. The demonstration section shall conform with all applicable requirements specified herein.

#### 3.3.4.2 Demonstration Section Evaluation

The Contractor shall not proceed with A-11 armor stone placement or existing capstone placement prior to the approval of the demonstration section by the Contracting Officer. Within a period of 3 days after completion of the section, the Contracting Officer shall determine the adequacy and acceptability of the section. The Contractor shall be notified as to the acceptability of the section. If the Contracting Officer determines the demonstration is noncompliant, the Contractor will be required to modify the methods of construction, equipment, and materials until compliance with these specifications is achieved. Upon acceptance of the demonstration section by the Contracting Officer, the demonstration section will be considered part of the new work.

### 3.4 STONE DELIVERY

#### 3.4.1 Delivery Tickets for Truck or Rail Transportation

Copies of delivery tickets shall be submitted to the Contracting Officer's Representative during the progress of the work. The Contractor shall furnish the Contracting Officer's Representative scale tickets for each load of material weighed. These tickets shall include tare weight, identification mark of each vehicle weighed, date, time, and location of the loading. A master log of all vehicle loading shall be furnished for each day of loading operation. The Contractor shall file with the Contracting Officer's Representative the master log of loadings, certified waybills and/or certified tickets as part of the Daily Report of Operations.

Prior to the final payment, the Contractor shall furnish written certification that the material recorded on the submitted certified tickets was actually used in the construction covered by the contract.

#### 3.4.2 Scale Tickets and Records for Barge Transportation

Copies of Scale Tickets and/or Records of weights, including displacement weight date, shall be submitted for each load of material delivered to the site. The Contracting Officer's Representative will determine from the displacement weight date, the weight of stone shipped by barge and will certify displacement weight records. Each scale ticket and/or record shall include the gross, rate, dunnage, and net weight of stone. The weight of dunnage for each load will be determined, recorded, and certified by the Contracting Officer's Representative. Deliveries and numbered scale tickets and/or records shall be recorded on an approved system to maintain delivery control. Copies of scale tickets and/or records shall accompany each load of stone and a copy shall be delivered to the Contracting Officer's Representative as part of the Daily Report of Operations. Prior to the final payment, the Contractor shall furnish written certification that the material recorded on the submitted certified tickets and/or records was actually used in the construction covered by the contract.

#### 3.4.3 Stone Weight Marking

All A-11 armor stone delivered shall have its weight plainly marked on each stone.

-- End of Section --