

**THE PORT OF TACOMA ON BEHALF OF THE  
NORTHWEST SEAPORT ALLIANCE  
TACOMA, WASHINGTON**

**WEST HYLEBOS LOG DOCK REPAIRS**

**PROJECT NO. 201016.01  
CONTRACT NO. 070636**

**Jane Vandenberg, PE  
Director, Engineering**

**Pedro Reyes, PE  
Project Manager**

**END OF PROJECT TITLE PAGE**

THE UNDERSIGNED ENGINEER OF RECORD HEREBY CERTIFIES THAT THE TECHNICAL SPECIFICATIONS FOR THE FOLLOWING PORTIONS OF THIS PROJECT MANUAL WERE WRITTEN BY ME, OR UNDER MY DIRECT SUPERVISION, AND THAT I AM DULY REGISTERED UNDER THE LAWS OF THE STATE OF WASHINGTON, AND HEREBY AFFIX MY PROFESSIONAL SEAL AND SIGNATURE. THOSE SECTIONS PREPARED UNDER OR BY SUPERVISION AND BEING CERTIFIED BY MY SEAL AND SIGNATURE ARE AS FOLLOWS:



---

Bruce I. Ostbo, P.E., S.E.  
**Moffatt & Nichol**

600 University Street, Suite 610  
Seattle, WA 98101  
Phone: 206-622-0222

Division 02 - Existing Conditions  
Division 03 - Concrete  
Division 05 - Metals  
Division 06 – Wood, Plastic, and Composites  
Division 31 - Earthwork

**END OF SECTION**

## **PROCUREMENT AND CONTRACTING REQUIREMENTS**

### **DIVISION 00 -- PROCUREMENT AND CONTRACTING REQUIREMENTS**

- 00 01 01 - Project Title Page
- 00 01 07 - Seals Page
- 00 01 10 - Table of Contents
- 00 01 15 - List of Drawing Sheets
- 00 11 13 - Advertisement for Bids
- 00 21 00 - Instructions to Bidders
- 00 26 00 - Substitution Procedures During Bidding
- 00 31 26 - Existing Hazardous Material Information
- 00 41 00 - Bid Form
- 00 43 13 - Bid Security Form
- 00 43 25 - Substitution Request Form During Bidding
- 00 45 13 – Responsibility Detail Form
- 00 52 00 - Agreement Form
- 00 61 13.13 - Performance Bond
- 00 61 13.16 - Payment Bond
- 00 61 23 - Retainage Bond
- 00 61 23.13 - Retainage Escrow Agreement
- 00 63 25 - Substitution Request Form During Construction
- 00 72 00 - General Conditions
- 00 73 16 - Insurance Requirements
- 00 73 46 - Washington State Prevailing Wage Rates
- 00 73 63 - Security Requirements

## **SPECIFICATIONS**

### **DIVISION 01 -- GENERAL REQUIREMENTS**

- 01 10 00 - Summary
- 01 14 00 - Work Restrictions
- 01 20 00 - Price and Payment Procedures
- 01 25 00 - Substitution Procedures During Construction
- 01 26 00 - Change Management Procedures
- 01 29 73 - Schedule of Values
- 01 30 00 - Administrative Requirements
- 01 31 23 – Web Based Construction Management

01 33 00 - Submittal Procedures  
01 35 29 - Health, Safety, and Emergency Response Procedures  
01 35 43.13 - Hazardous Materials Handling Procedure  
01 35 47 - Air and Noise Control Procedures  
01 41 00 - Regulatory Requirements  
01 42 19 - Reference Standards  
01 45 00 - Quality Control  
01 50 00 - Temporary Facilities and Controls  
01 55 00 - Vehicular Access and Parking  
01 57 13 – TESC and SWPPP Short Form  
01 71 00 - Examination and Preparation  
01 74 19 - Construction Waste Management and Disposal  
01 77 00 - Closeout Procedures

**DIVISION 02 – EXISTING CONDITIONS**

02 41 00 – Selective Demolition

**DIVISION 03 – CONCRETE**

03 30 00 – Cast-in-Place Concrete

**DIVISION 05 – METALS**

05 10 00 – Miscellaneous Metals

**DIVISION 06 – WOOD, PLASTICS AND COMPOSITES**

06 10 00 – Rough Carpentry

**DIVISION 31 – EARTHWORK**

31 62 19 – Timber Piles

**END OF SECTION**

**PART 1 - GENERAL**

**1.01 SUMMARY**

A. Contract Drawings: The following drawings are a part of the Contract Documents:

Sheet No.	Sheet Designation	Sheet Title
G1	1	Cover Sheet & Drawing List
G2	2	General Notes, Abbreviations & Legend
C1	3	Site Plan
S1	4	Repair Plan Bents 1 to 38
S2	5	Repair Plan Bents 39 to 77
S3	6	Repair Plan Bents 78 to 113
S4	7	Repair Details Sheet 1
S5	8	Repair Details Sheet 2
S6	9	Repair Details Sheet 3
S7	10	Site Photographs

**PART 2 - PRODUCTS - NOT USED**

**PART 3 - EXECUTION - NOT USED**

**END OF LIST OF DRAWINGS**

**THE PORT OF TACOMA ON BEHALF OF THE NORTHWEST SEAPORT ALLIANCE IS  
CURRENTLY ACCEPTING SEALED BIDS FOR CONSTRUCTION OF THE FOLLOWING:**

**WEST HYLEBOS LOG DOCK REPAIRS**

**PROJECT NO. 201016.01 | CONTRACT NO. 070636**

- Scope of Work:** The work required for this project includes: Installation of timber bearing piles, restore and secure misaligned bearing piles, restoring breasting dolphins piles, timber blocking and other components.
- Bid Estimate:** Estimated cost range is \$375,000 to \$430,000, plus Washington State Sales Tax (WSST).
- Sealed Bid Date/Time/ Location:** Bids will be received at the Front Reception Desk, Port Administration Office, One Sitcum Plaza, Tacoma, Washington until **2:00 P.M. September 8th, 2017**, at which time they will be publicly opened and read aloud.
- Pre-bid Conference and Site Tour:** A pre-bid conference and site visit have been set for **August 29th, 2017 at 10:00AM**. The site visit will convene at the Port's Administrative building, located at One Sitcum Plaza. The following Personal Protective Equipment is required for the site visit: hardhat, sturdy shoes, reflective vest, gloves, and safety glasses.
- Bidding Security:** Each bid must be accompanied by a Certified Check or Bid Security Bond in an amount equal to five (5) percent of the bid.
- Contact Information:** All questions are to be put into writing to the Port at [procurement@portoftacoma.com](mailto:procurement@portoftacoma.com). No oral answers will be binding by the Port.
- Bidding Documents:** Plans, Specifications, Addenda, and Plan Holders List for this project are available on-line through The Port of Tacoma's Website [www.portoftacoma.com](http://www.portoftacoma.com). Click on "Contracts"; "Procurement", and then the **Procurement Number 070636**. Bidders must subscribe to the Holder's List on the right hand side of the screen in order to receive automatic email notification of future addenda and to be placed on the Holder's List.
- Contact [procurement@portoftacoma.com](mailto:procurement@portoftacoma.com) with questions. Holder's Lists will be updated regularly. Additional Instructions available in 00 21 00 - Instructions to Bidders.

**END OF SECTION**

## **PART 1 - SUMMARY**

### **1.01 DEFINITIONS**

All definitions set forth in the Agreement, the General Conditions of the Contract for Construction and in other Contract Documents are applicable to the Bidding Documents.

- A. "Addenda" are written or graphic instruments issued prior to the execution of the Contract which modify or interpret the Bidding Documents by additions, deletions, clarifications or corrections. The contents of an Addendum are issued in no particular order and therefore should be carefully and completely reviewed.
- B. "Award" means the formal decision by The Port of Tacoma ("Port") notifying a Responsible Bidder with the lowest responsive Bid of the Port's acceptance of the Bid and intent to enter into a Contract with the Bidder.
- C. The "Award Requirements" include the statutory requirements as a condition precedent to Award.
- D. The "Base Bid" is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents as the base to which work may be added or from which work may be deleted for sums stated in Alternate Bids.
- E. A "Bid" is a complete and properly signed proposal to do the Work, submitted in accordance with the Bidding Documents, for the sums therein stipulated and supported by any data called for by the Bidding Documents.
- F. The "Bid Date" is the day and hour specified in the Bidding Documents, as may be changed through an Addendum, by which Bidders are required to submit Bids to the Port.
- G. The "Bid Form" is the form(s) included with the Bidding Documents, with Specification Section 00 41 00, through which a Bidder submits a Bid.
- H. A "Bidder" is a person or entity who submits a Bid.
- I. The "Bidding Documents" include the Advertisement or Invitation to Bid, Instructions to Bidders, the Bid Form, any other sample bidding and contract forms, the Bid Bond, and the proposed Contract Documents, including any Addenda issued prior to the Bid Date.
- J. The "Contract Documents" proposed for the Work consist of the Agreement, the General Conditions of the Contract (as well as any Supplemental, Special or other Conditions included in the project manual), the Drawings, the Specifications, and all Addenda issued prior to, and all modifications issued after, execution of the Contract.
- K. The "Schedule of Unit Prices" is a separate schedule on the Bid Form for Unit Pricing as an all-inclusive price per unit of measurement for materials, equipment or services as described in the Bidding Documents or in the proposed Contract Documents for the optional use of the PORT. Quantities are not predictions of amounts anticipated. The Port may but is not obligated to accept a Schedule of Unit Price if it accepts the Base Bid. The Schedule of Unit Prices are not factored into the evaluation of determining the low bid amount and are not included as part of the bid award amount.
- L. A "Sub-Bidder" is a person or entity of any tier who submits a bid or proposal to or through the Bidder for materials, equipment or labor for a portion of the Work.

## 1.02 BIDDER'S REPRESENTATIONS

By making its Bid, each Bidder represents that:

- A. **BIDDING DOCUMENTS.** The Bidder has read and understands the Bidding Documents, and its Bid is made in accordance with them.
- B. **PRE-BID MEETING.** The Bidder has attended pre-Bid meeting(s) required by the Bidding Documents. Attendance at a mandatory meeting or training session means that, in the sole opinion of the Port, a Project representative of a prospective Bidder has attended all or substantially all of such meeting or session.
- C. **BASIS.** Its Bid is based upon the materials, systems, services, and equipment required by the Bidding Documents, and is made without exception.
- D. **EXAMINATION.** The Bidder has carefully examined and understands the Bidding Documents, the Contract Documents (including, but not limited to, any liquidated damages and insurance provisions), and the Project site, including any existing buildings, it has familiarized itself with the local conditions under which the Work is to be performed and has correlated its observations with the requirements of the proposed Contract Documents and it has satisfied itself as to the nature, location, character, quality and quantity of the Work, the labor, materials, equipment, goods, supplies, work, services and other items to be furnished, and all other requirements of the Contract Documents. The Bidder has also satisfied itself as to the conditions and other matters that may be encountered at the Project site or affect performance of the Work or the cost or difficulty thereof, including but not limited to those conditions and matters affecting: transportation, access, disposal, handling and storage of materials, equipment and other items; availability and quality of labor, water, electric power and utilities; availability and condition of roads; climatic conditions and seasons; physical conditions at the Project site and the surrounding locality; topography and ground surface conditions; and equipment and facilities needed preliminary to and at all times during the performance of the Work. The failure of the Bidder fully to acquaint itself with any applicable condition or matter shall not in any way relieve the Bidder from the responsibility for performing the Work in accordance with, and for the Contract Sum and within the Contract Time provided for in, the Contract Documents.
- E. **PROJECT MANUAL.** The Bidder has checked its copies of the project manual (if any) with the table of contents bound therein to ensure the project manual is complete.
- F. **SEPARATE WORK.** The Bidder has examined and coordinated all Drawings, Contract Documents, and Specifications with any other contracts to be awarded separately from, but in connection with, the Work being Bid upon, so that the Bidder is fully informed as to conditions affecting the Work under the Contract being Bid upon.
- G. **LICENSE REQUIREMENTS.** Bidders and Sub-Bidders shall be registered and shall hold such licenses as may be required by the laws of Washington, including a certificate of registration in compliance with RCW 18.27, for the performance of the Work specified in the Contract Documents.
- H. **NO EXCEPTIONS.** Bids must be based upon the materials, systems and equipment described and required by the Bidding Documents, without exception.

## 1.03 BIDDING DOCUMENTS

### A. COPIES

1. Bidders may obtain complete sets of the Bidding Documents from The Port of Tacoma's Website [www.portoftacoma.com](http://www.portoftacoma.com). Click on "Contracts" then "Procurement".



2. Complete Sets. Bidders shall use complete sets of Bidding Documents in preparing Bids and are solely responsible for obtaining updated information. The Port of Tacoma or the Northwest Seaport Alliance does not assume any responsibility for errors or misinterpretations resulting from the use of incomplete and/or superseded sets of Bidding Documents.
3. Conditions. The Port makes copies of the Bidding Documents available only for the purpose of obtaining Bids on the Work and does not confer a license or grant permission for any other use.
4. Legible Documents. To the extent any Drawings, Specifications, or other Bidding Documents are not legible, it is the Bidder's responsibility to obtain legible documents.

**B. INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS**

1. Format. The Contract Documents are divided into parts, divisions, and sections for convenient organization and reference. Generally, there has been no attempt to divide the Specification sections into Work performed by the various building trades, any Work by separate contractors, or any Work required for separate facilities in or phases of the Project.
2. Duty to Notify. Bidders shall promptly notify the Port in writing of any ambiguity, inconsistency, or error that they may discover upon examination of the Bidding Documents or of the site and local conditions.
3. Products and Installation. All Bidders shall thoroughly familiarize themselves with specified products and installation procedures and submit to the Port any objections (in writing) no later than seven (7) days prior to the Bid Date. The submittal of the Bid constitutes acceptance of products and procedures specified as sufficient, adequate, and satisfactory for completion of the Contract.
4. Written Request. Bidders requiring clarification or interpretation of the Bidding Documents shall make a written email request to [procurement@portoftacoma.com](mailto:procurement@portoftacoma.com) at least seven (7) days prior to the Bid Date.
5. **Request to Modify Responsibility Criteria.** No later than seven (7) days prior to the Bid Date, a potential Bidder may request in writing that the Port modify the Responsibility Criteria. The Port will evaluate the information submitted by the potential Bidder and respond before the Bid Date. If the evaluation results in a change of the Criteria, the PORT will issue an Addendum identifying the new Criteria.
6. Addenda. The Bidder shall not rely on oral information provided at any pre-Bid meetings or during site visits. Verbal statements made by representatives of the Port are for informational purposes only. Any interpretation, correction or change of the Bidding Documents will be made solely by written Addendum. Interpretations, corrections or changes of the Bidding Documents made in any manner other than by written Addendum, including but not limited to oral statements, will not be binding, and Bidders shall not rely upon such statements, interpretations, corrections or changes. The Port is not responsible for explanations or interpretations of the Bidding Documents other than in a written Addendum.
7. Site Visits. Any site visits are provided as a courtesy to potential Bidders to assist them in becoming familiar with the Project site conditions. However, only the Bidding Documents, including any issued Addenda, may be relied upon by Bidders.

8. Singular References. Reference in the singular to an article, device, or piece of equipment shall include as many of such articles, devices, or pieces as are indicated in the Contract Documents or as are required to complete the installation.
9. Utilities and Runs. The Bidder should assume that the exact locations of any underground or hidden utilities, underground fuel tanks, and plumbing and electrical runs may be somewhat different from any location indicated in the surveys or Contract Documents.

C. SUBSTITUTIONS

1. For substitutions during bidding, refer to Section 00 26 00 – Substitution Procedures During Bidding.

D. ADDENDA

1. Distribution. All Addenda will be written and will be made available on the Port of Tacoma website or any other source specified by the Port for the Project.
2. Copies. Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for that purpose.
3. Verification and Acknowledgment of Receipt. Prior to submitting a Bid, each Bidder shall ascertain that it has received all Addenda issued. Each Bidder shall acknowledge its receipt and consideration of all Addenda in its Bid.

1.04 BIDDING PROCEDURE

A. FORM AND STYLE OF BIDS

1. Form. Bids (including required attachments) shall be submitted on forms identical to the Bid Form included with the Bidding Documents. No oral, email, or telephonic responses or modifications will be considered.
2. Entries on the Bid Form. All blanks on the Bid Form shall be filled in by typewriter, printer, or manually in ink.
3. Figures. All sums shall be expressed in figures, not words. Portions of the Bid Form may require the addition or multiplication of components bids to a total or the identification of component amounts within a total. In case of discrepancy between unit prices listed and their sum(s), the unit prices listed shall govern (rather than the sum).
4. Initial Changes. Any interlineation, alteration or erasure shall be initialed by an authorized representative of the Bidder.
5. Bid Breakdown. The Bid Form may contain, for the Port's accounting purposes only, a breakdown of some or all of the components included in the Base Bid.
  - a. For lump sum bids the total Contract Sum shall be submitted.
  - b. For unit price bids a price shall be submitted for each item of the Work, an extension thereof, and, if requested, the total Contract Sum.
6. Schedule of Unit Prices. All Unit Prices under this schedule shall be bid. The Port reserves the right, but is not obligated to, reject any Bid on which all requested Schedule of Unit Prices are not bid.
7. No Conditions. The Bidder shall make no conditions or stipulations on the Bid Form nor qualify its Bid in any manner.
8. Identity of Bidder. The Bidder shall include in the specified location on the Bid Form the legal name of the Bidder and, if requested, a description of the Bidder as a sole proprietor,

a partnership, a joint venture, a corporation, or another described form of legal entity. The Bid shall be signed by the person or persons legally authorized to bind the Bidder to a contract. The Port verifies signature authority on the Labor and Industries website <https://fortress.wa.gov/lni/bbip/Search.aspx> under the contractor registration business owner information. If the business owner information is not current the bidder shall show proof of authority to sign at the request of the Port. A Bid submitted by an agent shall have a current power of attorney attached certifying the agent's authority to bind the Bidder

9. Bid Amounts Do Not Include Sales Tax. The Work to be performed constitutes a "retail sale" as this term is defined in RCW 82.04.050. Thus, the Base Bid amount shall include in the sum stated all taxes imposed by law, EXCEPT WASHINGTON STATE AND LOCAL SALES TAX. The engaged Contractor will pay retail sales tax on all consumables used during the performance of the Work and on all items that are not incorporated into the final Work; this tax shall be included in the Base Bid price and in any other prices set forth on the Bid Form. The Port will pay state and local retail sales tax on each progress payment and final payment to the engaged Contractor for transmittal by the Contractor to the Washington State Department of Revenue or to the applicable local government.

#### B. BID SECURITY

1. Purpose and Procedure. Each Bid shall be accompanied by Bid security payable to the Port in the form required by the Bidding Documents and equal to five percent (5%) of the Base Bid only (i.e., not including any Alternates or Unit Prices). The Bid security constitutes a pledge by the Bidder to the Port that the Bidder will enter into the Contract with the Port in the form provided, in a timely manner, and on the terms stated in its Bid, and will furnish in a timely manner the payment and performance bonds, certificates of insurance, and all other documents required in the Contract Documents. Should the Bidder fail or refuse to enter into the Contract or fail to furnish such documents, the amount of the Bid security shall be forfeited to the Port as liquidated damages, not as a penalty. By submitting a Bid, each Bidder represents and agrees that the Bid security, if forfeited, is a reasonable prediction on the Bid Date of future damages to the Port.
2. Form. The Bid security shall be in the form of a certified or bank cashier's check payable to the Port or a Bid bond executed by a bonding company reasonably acceptable to the Port licensed in the State of Washington, registered with the Washington State Insurance Commissioner, possess and A.M. Best rating of "A minus, Fiscal Size Category (FSC) (6) or better and be authorized by the U.S. Department of the Treasury. The Bid security shall be signed by the person or persons legally authorized to bind the Bidder. Bid bonds shall be submitted using the form included with the Bidding Documents.
3. Retaining Bid Security. The Port will have the right to retain the Bid security of Bidders to whom an Award is being considered until the earliest of either (a) mutual execution of the Contract, and the Port's receipt of payment and performance bonds, or (b) the specified time has elapsed so that Bids may be withdrawn, or (c) when all Bids have been rejected.
4. Return of Bid Security. Within sixty (60) days after the Bid Date, the Port will release or return Bid securities to Bidders who's Bids are not to be further considered in Awarding the Contract. Bid securities of the three apparent low Bidders will be held until the Contract has been finally executed, after which all unforfeited Bid securities will be returned. Bid security may be returned in the form provided or by separate payment.

### C. SUBMISSION OF BIDS

1. Procedure. The Bid, the Bid security, and other documents required to be submitted with the Bid shall be enclosed in a sealed envelope identified with the Project name and number and the Bidder's name and address. If the Bid is sent by mail the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face of the mailing envelope.
  - a. If a Bid is mailed, it shall be addressed to The Northwest Seaport Alliance, Contracts Department, One Sitcum Plaza, Tacoma, WA 98421.
  - b. If a Bid is delivered, it shall be delivered to the Front Reception Desk, Port of Tacoma, One Sitcum Plaza, Tacoma, WA 98421.
  - c. The time stamp clock at the Front Reception Desk at One Sitcum Plaza is the Port's official clock.
2. Deposit. Bids shall be deposited at the designated location prior to the Bid Date indicated in the Advertisement or Invitation to Bid, or any extension thereof made by Addendum. Bids received after the Bid Date and time specified shall be returned without consideration at the discretion of the Port or rejected at the time of receipt.
3. Delivery. The Bidder assumes full responsibility for timely delivery at the location designated for receipt of Bids.
4. Form. Oral, facsimile, telephonic, electronic, or email Bids are invalid and will not be considered.

### D. MODIFICATION OR WITHDRAWAL OF BID

1. After the Bid Date. A Bid may not be modified, withdrawn or canceled by the Bidder during a sixty (60) day period following the Bid Date, and each Bidder so agrees by virtue of submitting its Bid.
2. Before the Bid Date. Prior to the Bid Date, any Bid submitted may be modified or withdrawn only by notice to the party receiving Bids at the place designated for receipt of Bids. The notice shall be in writing with the signature of the Bidder and shall be worded so as not to reveal the amount of the original Bid. Email notice will not be accepted. It shall be the Bidder's sole responsibility to verify that the notice has been received by the Port in time to be withdrawn before the Bid opening.
3. Resubmittal. Withdrawn Bids may be resubmitted up to the time designated for the receipt of Bids provided that they are then fully in conformance with these Instructions to Bidders.
4. Bid Security with Resubmission. Bid security shall be in an amount sufficient for the Bid as modified or resubmitted.

### E. COMMUNICATIONS

1. Communications from a Bidder related to these Instructions to Bidders must be in writing to [procurement@portoftacoma.com](mailto:procurement@portoftacoma.com). Communications, including but not limited to notices and requests, by Sub-Bidders shall be made through the Bidder and not directly by a Sub-Bidder to the Port.

### 1.05 CONSIDERATION OF BIDS

- A. OPENING OF BIDS: Unless stated otherwise in the Advertisement or Invitation to Bid or an Addendum, the properly identified Bids received on time will be opened publicly and will be read

aloud. An abstract of the Base Bids and any Alternate Bids will promptly (and generally within 24 hours) be made available to Bidders and other interested parties.

- B. REJECTION OF BIDS: The Port shall have the right but not the obligation to reject any or all Bids for any reason or for no reason, to reject a Bid not accompanied by the required Bid security, or to reject a Bid which is in any way incomplete or irregular.
- C. BIDDING MISTAKES: The Port will not be obligated to consider notice of claimed Bid mistakes received more than 24 hours after the Bid Date. In accordance with Washington law, a low Bidder that claims error and fails to enter into the Contract is prohibited from Bidding on the Project if a subsequent call for Bids is made for the Project.
- D. ACCEPTANCE OF BID (AWARD)
  - 1. Intent to Accept. The Port intends (but is not bound) to Award a Contract to the Responsible Bidder with the lowest responsive Bid, provided the Bid has been submitted in accordance with the requirements of the Bidding Documents and does not exceed the funds available. The Port has the right to waive any informality or irregularity in any Bid(s) received and to accept the Bid which, in its judgment, is in its own best interests.
  - 2. Requirements for Award. Before the Award, the lowest responsive Bidder must be deemed Responsible by the Port and must satisfy all Award Requirements.
- E. BID PROTEST PROCEDURES
  - 1. Procedure. A Bidder protesting for any reason the Bidding Documents, a Bidding procedure, the Port's objection to a Bidder or a person or entity proposed by the Bidder, including but not limited to a finding of non-Responsibility, the Award of the Contract or any other aspect arising from or relating in any way to the Bidding shall cause a written protest to be filed with the Port within two (2) business days of the event giving rise to the protest. (Intermediate Saturdays, Sundays, and legal holidays are not counted as business days.) The written protest shall include the name of the protesting Bidder, the bid solicitation number and title under which the protest is submitted, a detailed description of the specific factual and legal grounds for the protest, copies of all supporting documents, evidence that the apparent low bidder has been given notice of the protest, and the specific relief requested. The written protest shall be sent by email to [procurement@portoftacoma.com](mailto:procurement@portoftacoma.com).
  - 2. Consideration. Upon receipt of the written protest, the Port will consider the protest. The Port may, within three (3) business days of the Port's receipt of the protest, provide any other affected Bidder(s) the opportunity to respond in writing to the protest. If the protest is not resolved by mutual agreement of the protesting Bidder and the Port, the Contracts Director of the Port or his or her designee will review the issues and promptly furnish a final and binding written decision to the protesting Bidder and any other affected Bidder(s) within six (6) business days of the Port's receipt of the protest. (If more than one (1) protest is filed, the Port's decision will be provided within six (6) business days of the Port's receipt of the last protest.) If no reply is received from the Port during the six (6) business-day period, the protest will be deemed rejected.
  - 3. Waiver. Failure to comply with these protest procedures will render a protest waived.
  - 4. Condition Precedent. Timely and proper compliance with and exhaustion of these protest procedures shall be a condition precedent to any otherwise permissible judicial consideration of a protest.

#### 1.06 POST BID INFORMATION

##### A. THE LOWEST RESPONSIVE BIDDER SHALL:

1. Responsibility Detail Form. Within 24 hours of the Low Responsive Bidder Selection Notification, the apparent low Bidder shall submit to the Port the Responsibility Detail Form and Project Example Sheets (Section 00 45 13) executed by an authorized company officer. As requested from the Port, the low, responsive Bidder shall provide written confirmation that the person signing the Bid on behalf of the Bidder was duly authorized at the time of bid, a detailed breakdown of the Bid in a form acceptable to the Port, and other information required by the Port.
  2. Within ten (10) days after the Port's Notice of Award of the Contract, the apparent low Bidder shall also submit to the Port:
    - a. additional information regarding the use of the Bidder's own forces and the use of subcontractors and suppliers;
    - b. the names of the persons or entities (including a designation of the Work to be performed with the Bidder's own forces, and the names of those who are to furnish materials or equipment fabricated to a special design) proposed for each of the principal portions of the Work (i.e., either a listed Sub-Bidder or a Sub-Bidder performing Work valued at least ten percent (10%) of the Base Bid), consistent with the listing required with the Bid; and
    - c. the proprietary names and the suppliers of the principal items or systems of materials and equipment proposed for the Work.
  3. Failure to provide any of the above information in a timely manner will constitute an event of breach permitting forfeiture of the Bid security.
  4. Bidder Responsibility. The Bidder will be required to establish to the satisfaction of the Port the reliability and Responsibility of itself and the persons or entities proposed to furnish and perform the Work described in the Bidding Documents. If requested, the Bidder shall meet with the Port to discuss the Bid, including any pricing, the Bid components, and any assumptions made by the Bidder.
  5. Objection. Prior to an Award of the Contract, the Port will notify the Bidder in writing if the Port, after due investigation, has reasonable objection to the Bidder or a person or entity proposed by the Bidder. Upon receiving such objection, the Bidder may, at Bidder's option, (1) withdraw their Bid, (2) submit an acceptable substitute person or entity with no change in the Contract Time and no adjustment in the Base Bid or any Alternate Bid, even if there is a cost to the Bidder occasioned by such substitution, or (3) file a protest in accordance with the Bidding Documents.
  6. Change. Persons and entities proposed by the Bidder to whom the Port has made no reasonable objection must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Port.
  7. Right to Terminate. The Bidder's representations concerning its qualifications will be construed as a covenant under the Contract. If a Bidder makes a material misrepresentation on a Qualification Statement, the Port has the right to terminate the Contract for cause and may then pursue any remedies that exist under the Contract or that are otherwise available.
- B. INFORMATION FROM OTHER BIDDERS: All other Bidders designated by the Port as under consideration for Award of a Contract shall also provide a properly executed Qualification Statement, if so requested by the Port.

#### 1.07 PERFORMANCE BOND, LABOR AND MATERIAL PAYMENT BOND, AND INSURANCE

- A. **BOND REQUIREMENTS:** Within ten (10) days after the Port's Notice of Award of the Contract, the successful Bidder shall obtain and furnish statutory bonds pursuant to RCW 39.08 covering the faithful performance of the Contract and the payment of all obligations arising thereunder in the form and amount prescribed in the Contract Documents. The cost of such bonds shall be included in the Base Bid.
- B. **TIME OF DELIVERY AND FORM OF BONDS:** The successful Bidder shall deliver an original copy of the required bonds to the Port, 1 Sitcum Plaza, Tacoma, WA 98421, within the time specified in the Contract Documents.
- C. **INSURANCE:** a certificate of insurance from the Bidder's insurance company that meets or exceeds all requirements of the Contract Documents;
- D. **GOVERNMENTAL REQUIREMENTS:** Notwithstanding anything in the Bidding or Contract Documents to the contrary, the Bidder shall provide all bonding, insurance and permit documentation as required by governmental authorities having jurisdiction for any portions of the Project.

#### 1.08 FORM OF AGREEMENT

- A. **FORM TO BE USED:** The Contract for the Work will be written on the form(s) contained in the Bidding Documents, including any General, Supplemental or Special Conditions, and the other Contract Documents included with the project manual.
- B. **CONFLICTS:** In case of conflict between the provisions of these Instructions and any other Bidding Document, these Instructions shall govern. In case of conflict between the provisions of the Bidding Documents and the Contract Documents, the Contract Documents shall govern.
- C. **CONTRACT DELIVERY.** Within ten (10) days after Notice of Award, the Bidder shall submit a signed Contract to the Port in the form tendered to the Bidder and without modification.

#### **PART 2 - PRODUCTS - NOT USED**

#### **PART 3 - EXECUTION - NOT USED**

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General Conditions and Supplementary Conditions, and Division 0 and 1 Specifications sections shall apply to all sections of the Contract Documents, including specifications, drawings, addenda, or other changes of documents issued for bidding.

### **1.02 SUMMARY**

- A. Section includes administrative and procedural requirements for substitutions during bidding.

### **1.03 DEFINITIONS**

- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
- B. The bidding documents include performance specifications for products and equipment which meet project requirements. In those cases where a representative item or manufacturer is named in the specification, it is provided for the sole purpose of identifying a product meeting the required functional performance, and where the words "or equal" are used, a substitution request as further described, is not required.
- C. Where non-competitive or sole source products or manufacturers are explicitly specified with the words "or approved equal", or "Engineer approved equal", or "as approved by the Engineer" are used, they shall be taken to mean "or approved equal". In these cases a substitution request as further described in this section, is required.

### **1.04 SUBMITTALS**

- A. Pre-Bid Substitution Requests: Submit one PDF of the substitution request form along with all supporting documentation for consideration of each request. Identify product or fabrication or installation method to be replaced. Include Drawing numbers and titles. Substitution requests prior to bid date may originate directly from a prime bidder, or from a prospective supplier or subcontractor.
  - 1. Substitution Request Form: Use copy of form located in Section 00 43 25.
  - 2. Documentation: Show compliance with requirements for substitutions with the following, as applicable:
    - a. Statement indicating why specified product or fabrication or installation cannot be provided.
    - b. Coordination information, including a list of changes or modifications needed to other parts of the Work that will be necessary to accommodate proposed substitution.
    - c. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
    - d. Samples, where applicable or requested.
    - e. Certificates and qualification data, where applicable or requested.
    - f. Research reports evidencing compliance with building code in effect for project
  - 3. Engineer's Action: Engineer will review substitution requests if received electronically to [procurement@portoftacoma.com](mailto:procurement@portoftacoma.com) at least 7 days prior to the bid opening date set forth in these documents. Substitution requests received after this time will not be reviewed.



- a. Forms of Acceptance: Substitution requests will be formally accepted via written addendum prior to the bid opening date. Bidders shall not rely upon approvals made in any other manner.
  - b. Use product originally specified if Engineer does not issue a decision on use of a proposed substitution within time allocated.
  - c. The Port's decision of approval or disapproval of a proposed substitution shall be final.
- B. Substitutions will not be considered when:
- 1. Indicated or implied on shop drawings or product data submittals without formal request submitted in accordance with this Section.
  - 2. Acceptance will require substantial revision of Contract Documents or other items of the Work.
  - 3. Submittal for substitution request does not include point-by-point comparison of proposed substitution with specified product.

#### 1.05 QUALITY ASSURANCE

- A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials.

#### **PART 2 - PRODUCTS - NOT USED**

#### **PART 3 - EXECUTION - NOT USED**

**END OF SECTION**

**PART 1 - GENERAL**

1.01 SUMMARY

- A. This Section provides the notification required for disclosure of asbestos, lead-containing or other hazardous materials.

1.02 HAZARDOUS MATERIALS NOTICE

- A. The Port is reasonably certain that asbestos and lead will not be disturbed by the project. If the Contractor encounters material suspected of containing lead or asbestos which will interfere with the execution of the work, the Contractor shall stop work and notify the Engineer.

**PART 2 - PRODUCTS - NOT USED**

**PART 3 - EXECUTION - NOT USED**

**END OF SECTION**

**BIDDER'S NAME:** \_\_\_\_\_

**PROJECT TITLE: WEST HYLEBOS LOG DOCK REPAIRS**

The undersigned Bidder declares that it has read the specifications, understands the tools, materials, etc., including all work incidental to, or described or implied as incidental to such items, according to the contract documents of The Port of Tacoma, and that the Bidder will complete the work within the time stated, and that Bidder will accept in full payment therefore the lump sum or unit price(s) set forth below:

Proposed Bid Price. (Note: Show prices in figures only.) Complete Installation:

ITEM NO.	DESCRIPTION OF ITEM	QTY	UOM	UNIT PRICE	EXTENDED PRICE
1	MOBILIZATION AND DEMOBILIZATION	1	LS		
2	REPLACE BEARING PILE	2	EA		
3	DECK REMOVAL AND RESTORATION	1	EA		
4	RESTORE MISALIGNED PILE	6	EA		
5	REPLACE DOLPHIN PILE	28	EA		
6	FRESH-HEAD DOLPHIN PILE	26	EA		
7	REPLACE UPPER WIRE ROPE 5-WRAP LAYER	12	EA		
8	REPLACE LOWER WIRE ROPE 5-WRAP LAYER	16	EA		
9	REPLACE SIDE BLOCK	26	EA		
10	REPLACE BACKBOARD	5	EA		
11	REPLACE HOOK	8	EA		
12	PROVIDE UHMW PE RUB STRIP	26	EA		
13	REPLACE INTERNAL DOLPHIN BLOCKING	52	EA		
14	SEAL DOLPHIN PILE TOP	85	EA		
				<b>Total Bid</b>	

Evaluation of Bids. In accordance with the provisions of these Contract Documents, Bids will be evaluated to determine the lowest Base Bid Subtotal offered by a responsible Bidder submitting a responsive bid.

Schedule of Unit Prices. The following unit prices are proposed to apply only in the event of additions to or deletions from the work required and ordered. All prices shall include complete installation without Washington State Sales Tax. The bidder shall propose a price for each item; failure to propose a price for each item may render the bid non-responsive. The Port reserves the right to accept or reject the unit prices proposed.

Progress Payment Retention. In accordance with RCW 60.28.011, the undersigned elects that, during the life of the Contract, the money withheld from Contract progress payments be retained as indicated below. Failure to indicate a choice shall be construed as approval of Item (a).

- a. Retained percentages will be retained by the Port in a fund; or \_\_\_\_\_  
(Initials)
- b. Deposited by the Port in an interest-bearing account in a bank, mutual savings bank or savings and loan association; or \_\_\_\_\_  
(Initials)
- i. \_\_\_\_\_  
(Name of Bank, Mutual Savings Bank or S&L Assoc.)
- ii. \_\_\_\_\_  
(Address)
- c. Placed in escrow with a bank or trust company; or \_\_\_\_\_  
(Initials)
- i. \_\_\_\_\_  
(Name of Financial Institution)
- ii. \_\_\_\_\_  
(Address)
- iii. \_\_\_\_\_  
(Type of Security)
- d. Retainage Bond in an amount equal to 5% of the Contract Sum plus Change Orders. \_\_\_\_\_  
(Initials)

The retainage bond shall be based on the form furnished in Section 00 61 23 or otherwise acceptable to the Port and duly completed and signed by a licensed surety or sureties registered with the Washington State Insurance Commissioner and on the currently authorized insurance list published by the Washington State Insurance Commissioner. The surety or sureties must be rated at least A minus, FSC(6), or higher by A.M. Best Rating Guide and be authorized by the Federal Department of the Treasury. Attorneys-in-fact who sign the retainage bond must file with each bond a certified and effective Power of Attorney statement.

NOTE: Accounts and deposits made under Items (b) and (c), above, must be in a bank which is listed on the State of Washington Public Depositaries current list.

Trench Excavation Safety Provision. If the bid amount contains work which requires trenching exceeding a depth of 4 feet, all costs for trench safety shall be included in the Base Bid and indicated below for adequate trench safety systems in compliance with RCW 39.04 and WAC 296-155-650. Bidder shall include a lump sum amount, excluding Washington State Sales Tax. If trench excavation safety provisions do not pertain to the Work, the Bidder should enter "N.A." or "Not Applicable" in the blank on the Bid Form.

Trench Excavation Safety: \_\_\_\_\_(Total in Written Figures Only)

Addenda. Bidder acknowledges review of all Addenda through No. \_\_\_\_\_

Bid Security. A certified check, cashier's check, or other obligation of a bank, or a bid security bond in substantially the form set forth in Section 00 43 13, Bid Security Form for at least 5% of the total bid without sales tax, accompanies this bid.

Noncollusion. The undersigned declares under penalty of perjury that the bid submitted is a genuine and not a sham or collusive bid, or made in the interest or on behalf of any person or firm not therein named; and further says that the said bidder has not directly or indirectly induced or solicited any bidder on the above work or supplies to put in a sham bid, or any other person or corporation to refrain from bidding; and that said bidder has not in any manner sought by collusion to secure to the bidder an advantage over any other bidder or bidders.

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
By

\_\_\_\_\_  
Title

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
City, State

\_\_\_\_\_  
Zip Code

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Email Address

\_\_\_\_\_  
WA State Contractor's License No.

\_\_\_\_\_  
Date of Issue

\_\_\_\_\_  
Expiration Date

\_\_\_\_\_  
Unified Business Identifier (UBI) No.

\_\_\_\_\_  
Employment Security Department No.

\_\_\_\_\_  
Identification of Contractor as a sole proprietor, a partnership, a joint venture, a corporation, or another described form of legal entity

**END OF SECTION**

KNOW ALL MEN BY THESE PRESENTS:

That we, \_\_\_\_\_, as Principal, and \_\_\_\_\_, as Surety, are held and firmly bound unto The Port of Tacoma as Obligee, in the penal sum of \_\_\_\_\_ Dollars, for the payment of which the Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigned, jointly and severally, by these present.

The condition of this obligation is such that if the Obligee shall make any award to the Principal for \_\_\_\_\_, according to the terms of the proposal or bid made by the Principal therefor, and the Principal shall duly make and enter into a contract with the Obligee in accordance with the terms of said proposal or bid and award and shall give bond for the faithful performance thereof, with Surety or Sureties approved by the Obligee; or, if the principal shall, in case of failure to do so, pay and forfeit to the Obligee the penal amount of the deposit specified in the call for bids, then this obligation shall be null and void; otherwise it shall be and remain in full force and effect and the Surety shall forthwith pay and forfeit to the Obligee, as penalty and liquidated damages, the amount of this bond.

SIGNED, SEALED AND DATED THIS \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

BY \_\_\_\_\_  
Principal

BY \_\_\_\_\_  
Surety

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Agent and Address

Note: Bidder may submit Surety's bid bond form, provided it is similar in substance, made out in the name of The Port of Tacoma, and that the agent's name and address appear as specified. Bonds containing riders limiting responsibility for toxic waste or limiting the term of responsibility will be rejected.

**END OF SECTION**

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS  
SECTION 00 43 25 – SUBSTITUTION REQUEST FORM – DURING BIDDING

**Project Title** \_\_\_\_\_

**Project No.** \_\_\_\_\_

Submitted By: \_\_\_\_\_

Contract No. \_\_\_\_\_

Prime/Sub/Supplier: \_\_\_\_\_

Date: \_\_\_\_\_

Specification Title: \_\_\_\_\_

Section No. \_\_\_\_\_

Description: \_\_\_\_\_

Paragraph: \_\_\_\_\_

Page No. \_\_\_\_\_

Proposed Substitution: \_\_\_\_\_

Trade Name: \_\_\_\_\_

Model No.: \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Address: \_\_\_\_\_

Phone No.: \_\_\_\_\_

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted By: \_\_\_\_\_

Signed By: \_\_\_\_\_ Firm: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Email: \_\_\_\_\_

Supporting Data Attached:

☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ Other \_\_\_\_\_

**ENGINEER'S REVIEW AND ACTION**

- ☐ Substitution approved
- ☐ Substitution approved as noted
- ☐ Substitution rejected - Use specified materials.
- ☐ Substitution Request received too late - Use specified materials.

Signed by: \_\_\_\_\_ Date: \_\_\_\_\_

The low responsive Bidder shall be required to complete this Responsibility Detail Form as specified in Section 00 21 00 – Instructions to Bidders. **This completed Responsibility Detail Form shall be submitted electronically (pdf) via email to the Contact(s) identified in the Low Responsive Bidder Selection Notification. THIS IS NOT TO BE SUBMITTED WITH A BID.**

**Bidder's Company Name:** \_\_\_\_\_

For the below Mandatory Bidder Responsibility Criteria, please check the appropriate box.
---

**1.0 MANDATORY BIDDER RESPONSIBILITY CRITERIA**

A. The Bidder shall meet the following mandatory responsibility criteria as described in RCW 39.04.350(1). The Bidder shall be rejected as not responsible if any answer to questions 1 through 5 is "No" or any answer to questions 6 through 8 is "Yes".

1. Does the Bidder have a Certificate of Registration in compliance with RCW 18.27?

☐ Yes ☐ No

2. Does the Bidder have a current Washington State Unified Business Identifier number?

☐ Yes ☐ No

3. Does the Bidder have Industrial Insurance Coverage for the Bidder's employees working in Washington State as required in RCW 51?

☐ Yes ☐ No

4. Does the Bidder have an Employment Security Department number as required in RCW 50? **\*Attach letter dated within 6 months of bid opening date.**

*\*Request a letter electronically by clicking on the following link <https://fortress.wa.gov/esd/twt/pwcinternet/> or by emailing a request to [publicworks@esd.wa.gov](mailto:publicworks@esd.wa.gov).*

☐ Yes ☐ No

5. Does the Bidder have a Washington State Excise Tax Registration number as required in RCW 82?

☐ Yes ☐ No

6. Has the Bidder been disqualified from bidding on any public works project under RCW 39.06.010 or 39.12.065(3)?

☐ Yes ☐ No

7. Has the Bidder violated RCW 39.04.370 more than one time as determined by the Washington State Department of Labor and Industries?

☐ Yes ☐ No

8. Has the Bidder ever been found to be out of compliance with Apprenticeship Utilization requirements of RCW 39.04.320?

☐ Yes ☐ No

9. Has the Bidder ever been found to have willfully violated, as defined in RCW 49.48.082, any provision of chapter 49.46, 49.48, or 49.52 RCW within the three-year period immediately preceding the date of this bid solicitation?

☐ Yes ☐ No



If any answer to questions 1 through 5 is "No" or any answer to questions 6 through 9 is "Yes" - **STOP HERE** and contact the Contract Administrator. The Bidder is not responsible for this Work. Otherwise proceed to 1.1. **Provide attached to this completed form documentation to confirm responsibility criteria.**

For remaining criteria below, check or fill-out the appropriate box. Based upon the answer provided by the Bidder, the Port may request additional information or seek further explanation. As needed, provide backup documentation for any explanations listed below.

## 1.1 CONTRACT AND REGULATORY HISTORY

- A. The Port will evaluate whether the Bidder's contract and regulatory history demonstrates an acceptable record of past project performance and consistent responsibility. The Bidder shall answer the following questions. The Bidder may be rejected as not responsible if any answer to questions 1 through 5 below is "Yes".

1. Has the Bidder had a contract terminated for cause or default, in the last 5 years?

☐ Yes    ☐ No    **If YES, explain below.**

\_\_\_\_\_

2. Has the Bidder required a Surety to take over all, or a portion of, a project to cure or respond to an asserted default or material breach of contract on the part of the Bidder on any public works project, in the last 5 years?

☐ Yes    ☐ No    **If YES, explain below.**

\_\_\_\_\_

3. Have the Bidder and major Sub-Bidders been in bankruptcy, reorganization and/or receivership on any public works project, in the last 5 years?

☐ Yes    ☐ No    **If YES, explain below.**

\_\_\_\_\_

4. Have the Bidder and major Sub-Bidders been disqualified by any state or local agency from being awarded and/or participating on any public works project, in the last 5 years?

☐ Yes    ☐ No    **If YES, explain below.**

\_\_\_\_\_

5. Are the Bidder and major Sub-Bidders currently a party to a formal dispute resolution process with the Port—i.e., a pending mediation, arbitration or litigation.

☐ Yes    ☐ No    **If YES, explain below.**

\_\_\_\_\_

## 1.2 ACCIDENT/INJURY EXPERIENCE

- A. The Port will evaluate the Bidder's accident/injury Experience Modification Factor ("EMF") from the Washington State Department of Labor and Industries to assess whether the Bidder has an acceptable safety record preventing personal injuries on projects.
- B. List the Bidder's accident/injury EMF for the last five (5) years. An experience factor is calculated annually by the Washington State Department of Labor and Industries.

Year	Effective Year	Experience Factor
1		
2		
3		
4		
5		

If the Bidder has received an EMF of greater than 1.0 for any year, explain the cause(s) of the designation and what remedial steps were taken to correct the EMF. The Bidder may be rejected as not responsible if the Bidder's EMF is greater than 1.0 and sufficient remedial steps have not been implemented.

\_\_\_\_\_

## 1.3 WORK PERFORMED BY BIDDER

- A. The Bidder shall state the amount of the Contract Work, as an equivalent to the Total Bid Price, excluding taxes, insurance and bonding, the Bidder will execute with its own forces.

\_\_\_\_\_ %

## 1.4 SUBCONTRACTOR VERIFICATION

- A. The Bidder and its subcontractors to verify that its subcontractors at each tier meet the responsibility criteria as required by RCW 39.06.020 and 39.04.350.
1. Bidder shall verify major subcontractors meet the responsibility criteria required. Fill out one Port Public Works Project Bidder Evaluation Checklist for Subcontractors for each major subcontractor and submit to the Port with this form. Backup documentation is not required to be submitted.

## 1.5 PROJECT EXAMPLE SHEETS

- A. As part of completing this Responsibility Detail Form, **submit the following information with the completed Responsibility Detail Form:**
1. Bidder's recent job resume including a list of similar projects performed and contact information for the similar project Owner(s).
  2. Resumes of bidder's proposed project manager and job superintendent.
- B. The Bidder's failure to provide the required project information may result in a determination of the Bidder being declared non-responsible by the Port.
- C. The Bidder shall submit this completed, **SIGNED** Responsibility Detail Form electronically (PDF), with all requested backup documentation, via email to the Contact(s) noted on the Low Responsive Bidder Selection Notification.

**PROJECT:** \_\_\_\_\_

**PROJECT NO.** \_\_\_\_\_

**CONTRACT NO.** \_\_\_\_\_

**Responsibility Certification Form**

The Low responsive Bidder shall complete the Responsibility Detail Form, attach all documentation and submit to the Port within 24 hours following receipt of the Low, Responsive Bidder Selection Notification. All forms shall be submitted electronically (PDF) via email to the contact(s) listed on the Selection Notice. Note, the same project may be used to demonstrate experience across multiple categories if applicable.

By completing and signing this Responsibility Detail Form, the Bidder certifies (or declares) under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct, and the backup documentation, and any additional information requested by the Port is true and complete. The Bidder's failure to disclose the required information or the submittal of false or misleading information may result in the rejection of the Bidder's bid, revocation of award or contract termination.

The information provided herein is true and complete.

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Date

\_\_\_\_\_  
Print Name and Title

# The Port of Tacoma Public Works Project Bidder Evaluation Checklist for Subcontractors

Project Title \_\_\_\_\_

Bidder \_\_\_\_\_

Contract and Project Number \_\_\_\_\_

This checklist shall be completed by the Bidder and its subcontractors to verify that its subcontractors at each tier meet the responsibility criteria as required by RCW 39.06.020 and 39.04.350.

This checklist should be submitted to The Northwest Seaport Alliance Contracts Administrator within 24 hours of request. **Document verification information or backup data is not to be submitted to the Port, this information should remain on file with the Contractor and presented to the Port should it be requested at a later date.**

Item no.	Item	Initials/Comments
1.	At the time of bid submittal, have a certificate of registration in compliance with RCW 18.27: Check the L&I site <a href="https://fortress.wa.gov/lni/bbip/">https://fortress.wa.gov/lni/bbip/</a>  Verify that a subcontractor has an electrical contractor license, if required by chapter 19.28 RCW, or an elevator contractor license, if required by chapter 70.87 RCW.	
2.	While reviewing registration information above, also check contractor's <b>Employer Liability Certificate</b> to verify workers' comp (industrial insurance) premium status – current account.  Complete a "Submit Contractor Tracking Request" to be notified if the contractor fails to pay workers' comp premiums or renew their contractor registration or if their electrical contractor license is suspended or revoked within one year.	
3.	State excise tax registration number (Department of Revenue). (contractor's Washington State Unified Business Identifier and tax registration number) <a href="http://dor.wa.gov/content/doingbusiness/registermybusiness/brd/">http://dor.wa.gov/content/doingbusiness/registermybusiness/brd/</a>	
4.	Not disqualified from bidding on any public works contract under <a href="#">RCW 39.06.010</a> or <a href="#">39.12.065(3)</a> .  Check the Department of Labor and Industries <a href="http://www.lni.wa.gov/TradesLicensing/PrevWage/AwardingAgencies/DebarredContractors/">http://www.lni.wa.gov/TradesLicensing/PrevWage/AwardingAgencies/DebarredContractors/</a>	
5.	Verify subcontractors are registered with the Washington State Employment Security Department (ESD) and have an account number. Request a letter to be sent to them the subcontractor electronically by clicking on the following link <a href="https://fortress.wa.gov/esd/twt/pwcinternet/">https://fortress.wa.gov/esd/twt/pwcinternet/</a> or by email a request to <a href="mailto:publicworks@esd.wa.gov">publicworks@esd.wa.gov</a> . Include ES#, UBI#, and business name in the email. Certificate of Coverage letter issued/dated within the last six months.  Document if subcontractor confirms in writing under penalty of perjury that it has no employees this requirement does not apply.	

THIS AGREEMENT is made and entered into by and between THE PORT OF TACOMA, a State of Washington municipal corporation, hereinafter designated as the "Port," and:

<b>The "Contractor":</b>	_____	<b>(Legal Name)</b>
	_____	(Address)
	_____	(Address 2)
	_____	(Phone No.)
<b>The "Project" is:</b>	<b><u>West Hylebos Log Dock Repairs</u></b>	<b>(Title)</b>
	<u>201016.01   070636</u>	(Project/ Contract No.)
	<u>3401 Taylor Way</u>	(Project Address)
	<u>Tacoma, Wa</u>	(Project Address 2)
<b>The "Engineer" is:</b>	<b><u>Jane Vandenberg, PE</u></b>	<b>(Engineer)</b>
	<u>Director of Engineering</u>	(Title)
	<u>jvandenberg@portoftacoma.com</u>	(Email)
	<u>(253) 592-6777</u>	(Phone No.)
<b>The "Contractor's Representative" is:</b>	_____	<b>(Representative)</b>
	_____	Title
	_____	(Email)
	_____	(Phone No.)

**BACKGROUND AND REPRESENTATIONS:**

The Port has caused Drawings, Specifications, and other Contract Documents to be prepared for the performance of Work on the Project.

The Port publicly solicited bids on the Contract Documents. The Contractor submitted a bid to the Port on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ to perform the Work.

The Contractor represents that it has the personnel, experience, qualifications, capabilities, and means to accomplish the Work in strict accordance with the Contract Documents, within the Contract Time and for the Contract Price, and that it and its Subcontractors satisfy the responsibility criteria set forth in the Contract Documents, including any supplemental responsibility criteria.

The Contractor further represents that it has carefully examined and is fully familiar with all provisions of the Contract Documents, including any Addenda, that it has fully satisfied itself as to the nature, location, difficulty, character, quality, and quantity of the Work required by the Contract Documents and the conditions and other matters that may be encountered at or near the Project site(s), or that may affect performance of the Work or the cost or difficulty thereof including all applicable safety and site responsibilities, and that it understands and can satisfy all scheduling and coordination requirements and interim milestones.

## **AGREEMENT:**

The PORT and the Contractor agree as follows:

### **1.0 CONTRACTOR TO FULLY PERFORM THE WORK**

The Contractor shall fully execute and complete the entire Work described in the Contract Documents, except to the extent specifically indicated in the Agreement, the General Conditions of the Contract (as well as any Supplemental, Special or other Conditions included in the project manual), the Drawings, the Specifications, and all Addenda issued prior to, and all modifications issued after, execution of the Contract.

### **2.0 DATE OF COMMENCEMENT**

The date of commencement of the Work, which is the date from which the Contract Time is measured, shall be fixed as the date this agreement is executed.

### **3.0 CONTRACT TIME AND LIQUIDATED DAMAGES**

The Contractor shall achieve all interim milestones as set forth in the Contract Documents and Substantial Completion of the entire Work not later than 70 calendar days from contract execution, subject to adjustments of this Contract Time as provided in the Contract Documents. The Contractor shall achieve Final Completion of the Work within 30 calendar days of the date on which Substantial Completion is achieved.

Provisions for liquidated damages as a reasonable estimate of future loss, as of the date of this Agreement, are included in the Contract Documents. The parties agree that the stated liquidated damages are not penalties individually or cumulatively.

The liquidated damages for failure to achieve Substantial Completion by the prescribed date shall be \$1000 per calendar day. After the prescribed Final Completion date, the liquidated damages for failure to achieve Final Completion shall be \$500 per calendar day.

Liquidated damages assessed by the Port will be deducted from monies due to the Contractor, or from monies that will become due to the Contractor. The liquidated damages, as specified and calculated herein, shall be levied for each and every calendar day that Substantial Completion and/or Final Completion of the work is delayed beyond the prescribed completion dates, or the completion dates modified by the Port for extensions of the contract time.

#### 4.0 CONTRACT PRICE

In accordance with the Contractor's bid dated \_\_\_\_\_, the Port shall pay the Contractor in current funds for the Contractor's performance of the Contract the Contract Price of \_\_\_\_\_ Dollars (\$\_\_\_\_\_), subject to additions and deductions as provided in the Contract Documents. State and local sales tax is not included in the Contract Price but will be due and paid by the Port with each progress payment.

#### 5.0 INSURANCE AND BONDS

The Contractor shall purchase and maintain insurance and provide bonds as set forth in the Contract Documents.

This Agreement is entered into as of the day and year first written above:

CONTRACTOR

THE PORT OF TACOMA

By: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Execution  
Date: \_\_\_\_\_

**END OF SECTION**

**PERFORMANCE BOND # \_\_\_\_\_**

**CONTRACTOR (NAME AND ADDRESS)**

**SURETY (NAME AND PRINCIPLE PLACE OF BUSINESS)**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**OWNER (NAME AND ADDRESS)**

**AGENT OR BROKER (FOR INFORMATION ONLY)**

**THE PORT OF TACOMA**

**P.O. BOX 1837**

**TACOMA, WA 98401-1837**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**KNOW ALL MEN BY THESE PRESENTS:**

That \_\_\_\_\_ as Principal, hereinafter called Contractor, and \_\_\_\_\_ as Surety, hereinafter called Surety, are held and firmly bound unto The Northwest Seaport Alliance as Oblige, hereinafter called the Port, in the amount of \_\_\_\_\_ Dollars (\$\_\_\_\_\_) for the payment whereof Contractor and Surety bind themselves, their executors, administrators, legal representatives, successors and assigns, jointly and severally, firmly by these presents.

**WHEREAS:**

Contractor shall execute an agreement with the Port for \_\_\_\_\_ a copy of which Contract is by reference made a part hereof (the term "Contract" as used herein to include the aforesaid agreement together with all the Contract Documents, addenda, modifications, all alterations, additions thereto, deletions therefrom and any other document or provision incorporated into the Contract) and is hereinafter referred to as the Contract.

This bond is executed and issued pursuant to the provisions of Chapter 39.08 Revised Code of Washington.

**NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION** is such that if Contractor shall promptly and faithfully perform said Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

**FURTHER:**

- A. Surety hereby waives notice of any alterations, change orders, modifications or extensions of time made by the Port.
- B. Surety recognizes that the Contract includes provisions for additions, deletions and modifications to the work or Contract Time and the amounts payable to the Contractor. Subject to the limitations contained in (A) above, Surety agrees that no such addition, deletion, or modification, or any combination thereof, shall avoid or impair Surety's obligation hereunder.
- C. Whenever Contractor has been declared by the Port to be in default, and the Port has given Surety notice of the Port's determination of such default, Surety shall promptly (in no event more than fifteen (15) days following receipt of such notice) advise the Port of its intended action to:
  1. Remedy the default within fifteen (15) days following its advice to the Port as set forth above, or



2. Assume within fifteen (15) days, following its advice to the Port as set forth above, completion of the Contract in accordance with the Contract Documents and become entitled to payment of the balance of the Contract Sum, or
  3. Pay the Port upon completion of the Contract, in cash, the cost of completion together with all other reasonable costs and expenses incurred by the Port as a result of the Contractor's default, including but not limited to, those reasonable costs and expenses incurred by the Port in its efforts to mitigate its losses, which may include but are not limited to, attorney's fees and efforts to complete the Work prior to the Surety exercising the options available to it as set forth herein.
- D. If the Port shall commence suit and obtain judgment against the Surety for recovery hereunder, then the Surety, in addition to such judgment, shall pay all costs and attorney's fees incurred by the Port in enforcement of its rights hereunder. Venue for any action arising out of or in connection with this bond shall be in Pierce County, Washington.
- E. No right or action shall accrue on this bond to or for the use of any person or corporation other than The Northwest Seaport Alliance.

Signed and Sealed the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

**IMPORTANT:** Surety companies executing bonds must have an A.M. Best Rating of A- FSC of (6) or higher, have an underwriting limitation of not less than the Contract Sum, and be authorized to transact business in the State of Washington.

**SURETY**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name and Title

**CONTRACTOR**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name and Title

Power of Attorney attached.

**END OF SECTION**

**LABOR AND MATERIAL PAYMENT BOND # \_\_\_\_\_**

**CONTRACTOR (NAME AND ADDRESS)**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SURETY (NAME AND PRINCIPLE PLACE OF BUSINESS)**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**OWNER (NAME AND ADDRESS)**

**THE PORT OF TACOMA**  
**P.O. BOX 1837**  
**TACOMA, WA 98401-1837**

**AGENT OR BROKER (FOR INFORMATION ONLY)**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**KNOW ALL MEN BY THESE PRESENTS:**

That \_\_\_\_\_ as Principal, hereinafter called Contractor, and \_\_\_\_\_ as Surety, hereinafter called Surety, are held and firmly bound unto The Northwest Seaport Alliance as Obligee, hereinafter called the Port, and all others entitled to recovery hereunder, in the amount of \_\_\_\_\_ Dollars (\$\_\_\_\_\_) for the payment whereof Contractor and Surety bind themselves, their executors, administrators, legal representatives, successors and assigns, jointly and severally firmly by these presents.

**WHEREAS:**

Contractor shall execute an agreement with the Port for \_\_\_\_\_ a copy of which Contract is by reference made a part hereof (the term "Contract" as used herein to include the aforesaid agreement together with all the Contract Documents, addenda, modifications, alterations, additions thereto, deletions therefrom and any other documents or provisions incorporated into the Contract) and is hereinafter referred to as the Contract.

This bond is executed pursuant to the provisions of Chapter 39.08 Revised Code of Washington.

**NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION** is such that if Contractor shall promptly make payment to all claimants, as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the Contract and shall indemnify and save the Port harmless from all cost and damage by reason of Contractor's default, then this obligation shall be null and void; otherwise it shall remain in full force and effect, subject to the following conditions:

- A. The Surety hereby waives notice of any alterations, change orders, modifications or extensions of time made by the Port.
- B. Surety recognizes that the Contract includes provisions for additions, deletions and modifications to the Work or Contract Time and the amounts payable to the Contractor. Surety agrees that no such addition, deletion, or modification, or any combination thereof, shall avoid or impair Surety's obligation hereunder.

- C. Surety hereby agrees that every person protected under the provisions of RCW 39.08.010 who has not been paid as provided under the Contract and pursuant to RCW 39.08.010, less any amounts withheld pursuant to statute, and less retainage withheld pursuant to RCW 60.28, after the expiration of a period of thirty (30) days after the date on which the completion of the Contract in accordance with RCW 39.08, may sue on this bond, prosecute the suit to final judgment as may be due claimant, and have execution thereon including recovery of reasonable costs and attorney's fees as provided by RCW 39.08. The Port shall not be liable for the payment of any costs or expenses of any such suit.
- D. No suit or action shall be commenced hereunder by any claimant unless claimant shall have given the written notices to the Port, and where required, the Contractor, in accordance with RCW 39.08.030.
- E. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of claims which may be properly filed in accordance with RCW 39.08 whether or not suit is commenced under and against this bond.
- F. If any Claimant shall commence suit and obtain judgment against the Surety for recovery hereunder, then the Surety, in addition to such judgment and attorney fees as provided by RCW 39.08.030, shall also pay such costs and attorney fees as may be incurred by the Port as a result of such suit. Venue for any action arising out of or in connection with this bond shall be in Pierce County, Washington.

Signed and Sealed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

**IMPORTANT:** Surety companies executing bonds must have an A.M. Best Rating of A- FSC of (6) or higher, have an underwriting limitation of not less than the Contract Sum, and be authorized to transact business in the State of Washington.

**SURETY**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name and Title

**CONTRACTOR**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name and Title

Power of Attorney attached.

**END OF SECTION**

Bond No. \_\_\_\_\_

Project Title: \_\_\_\_\_

Project No.: \_\_\_\_\_

Contract No. \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS: That we \_\_\_\_\_,  
a corporation existing under and by virtue of the laws of the State of Washington and authorized to do  
business in the State of Washington, as Principal, and  
\_\_\_\_\_, a corporation organized and existing under the  
laws of the State of \_\_\_\_\_ and authorized to transact the business of  
surety in the State of Washington, as Surety, are jointly and severally held and bound unto The  
Northwest Seaport Alliance, hereinafter called Port, as Obligee, and are similarly held and bound unto  
the beneficiaries of the trust fund created by RCW 60.28 as their heirs, executors, administrators,  
successors and assigns in the penal sum of  
\_\_\_\_\_ (\_\_\_\_\_) plus  
5% of any increases in the contract amount that have occurred or may occur, due to change orders,  
increases in the quantities or the addition of any new item of work.

WHEREAS, on the \_\_\_\_\_ day of \_\_\_\_\_, the said Principal herein executed Contract No.  
\_\_\_\_\_ with the Port for \_\_\_\_\_.

WHEREAS, said contract and RCW 60.28 require the Port to withhold from the Principal the sum of 5%  
from monies earned by the Principal on estimates during the progress of the work, hereinafter referred to  
as earned retained funds.

WHEREAS, the Principal has requested that the Port accept a bond in lieu of earned retained funds as  
allowed under Chapter 60.28 RCW.

NOW THEREFORE, this obligation is such that the Surety, its successors, and assigns are held and  
bound unto the Port and unto all beneficiaries of the trust fund created by RCW 60.28.011(1) in the  
aforesaid sum. This bond, including any proceeds therefrom, is subject to all claims and liens and in the  
same manner and priority as set forth for retained percentages in Chapter 60.28 RCW. The condition of  
this obligation is also that if the Principal shall satisfy all payment obligations to persons who may lawfully  
claim under the trust fund created pursuant to Chapter 60.28 RCW, to the Port, and indemnify and hold  
the Port harmless from any and all loss, costs, and damages that the Port may sustain by release of said  
retainage to Principal, then this obligation shall be null and void, provided the Surety is notified by the  
Port that the requirements of RCW 60.28.021 have been satisfied and the obligation is duly released by  
the Port.

IT IS HEREBY DECLARED AND AGREED that the Surety shall be liable under this obligation as Principal. The Surety will not be discharged or released from liability for any act, omission or defenses of any kind or nature that would not also discharge the Principal.

IT IS HEREBY FURTHER DECLARED AND AGREED that this obligation shall be binding upon and inure to the benefit of the Principal, the Surety, the Port, the beneficiaries of the trust fund created by Chapter 60.28 Revised Code of Washington (RCW) and their respective heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, said Principal and said Surety have caused these presents to be duly signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_, 201\_\_.

\_\_\_\_\_  
By: \_\_\_\_\_  
Principal  
Address: \_\_\_\_\_  
City/ST/Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_

\_\_\_\_\_  
Surety Name \_\_\_\_\_  
By: \_\_\_\_\_  
Attorney-In-Fact  
Address: \_\_\_\_\_  
City/ST/Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_

**IMPORTANT:** Surety companies executing bonds must have an A.M. Best Rating of A- FSC of (6) or higher, and be authorized to transact business in the State of Washington.

<b>To:</b>	Bank Name, Address, Phone	Escrow Account No:	
		Contract No:	Port fills in
		Project No:	Port fills in
<b>Agency:</b>	The Port of Tacoma PO Box 1837 Tacoma, WA 98401-1837	Project Title:	Port fills in

The Undersigned \_\_\_\_\_, (Contractor Name and Address) hereinafter referred to as the Contractor, has directed The Northwest Seaport Alliance, hereinafter referred to as the Port, to deliver to \_\_\_\_\_ (Name of Bank), hereinafter referred to as "You", its checks for retainage under the Contract which shall be payable to You and the Contractor jointly, and which shall be held and disposed of by You in accordance with the following instructions and upon the terms and conditions hereinafter set forth.

**ESCROW INSTRUCTIONS:**

1. Checks made payable to You and the Contractor jointly upon delivery to You shall be endorsed by the Contractor and by You and then forwarded for collection by You. The moneys will then be used by You to purchase, as directed by the Contractor, bonds or other securities (hereinafter collectively referred to as "Securities") chosen by the Contractor and approved by the Port. Attached is a list of Securities approved by the Port. Other Securities, except stocks, may be selected by the Contractor, subject to express prior written approval of the Port, in its sole and absolute discretion. The purchase of Securities shall be in a form which shall allow You alone to reconvert such Securities into money if You are required to do so by the Port as provided in Paragraph 4 of this Escrow Agreement.
2. When and as interest on the Securities held by You pursuant to this Agreement accrues and is paid, You shall collect such interest and forward it to the Contractor at its address designated in the first paragraph unless otherwise directed by the Contractor.
3. You are not authorized to deliver to the Contractor all or any part of the checks or moneys received by You or the Securities held by You pursuant to this Agreement (or moneys derived from the sale of such Securities, or the negotiation of the Port's checks) except in accordance with written instructions from the Port's Sr. Contract Administrator. Compliance with such instructions shall relieve You of any further liability related thereto. The estimated final completion date on the Contract underlying this Agreement is \_\_\_\_\_.
4. In the event the Port orders You to do so in writing, You shall, within ten (10) days of receipt of such order, reconvert into money some or all of the Securities held by You pursuant to this Agreement, as required to satisfy the Port's order, and return such money, together with any other moneys held by You hereunder and required to satisfy the Port's order, to the Port. Consent of Contractor shall not be required for payment to the Port hereunder, and objection or other communication from Contractor shall not prevent, delay, or otherwise affect payment to the Port forthwith in accordance with the Port's order and this Agreement.
5. The Contractor agrees to pay You as compensation for Your services hereunder as follows: Payment of all fees shall be the sole responsibility of the Contractor and shall not be deducted from any checks, moneys, Securities, or other property placed with You or held by you pursuant to this Agreement until and unless the Port directs the release thereof to the Contractor, whereupon You shall be granted a first lien upon such property released and shall be entitled to reimburse Yourself from such property for the entire amount of Your fees as provided for hereinabove. In the event that You

are made a party to any litigation with respect to the checks, moneys, Securities, or other property held by You hereunder, or in the event that the conditions of this escrow are not promptly fulfilled or that You are required to render any service not provided for in these instructions, or that there is any assignment of the interests of this escrow or any modification hereof, You shall be entitled to reasonable compensation for such extraordinary services from the Contractor and reimbursement from the Contractor for all costs and expenses, including reasonable attorney fees occasioned by such default, delay, controversy or litigation.

6. This Agreement shall not be binding until executed by Contractor and Port, and accepted by You.
7. This instrument contains the entire agreement between You, the Contractor, and the Port with respect to this escrow. There are no terms, obligations, covenants, or conditions regarding this escrow other than those contained herein, and You are not a party to nor bound by any instrument or agreement regarding this escrow other than this Agreement. You shall not be required to take notice of any default or any other matter under the Contract nor be bound by nor required to give notice or demand under the Contract, nor required to take any action whatsoever except as herein expressly provided. You shall not be liable for any loss or damage not caused by Your own negligence or wilful misconduct.
8. The foregoing provisions shall be binding upon the assigns, successors, personal representatives and heirs of the parties hereto.
9. The Contractor's Federal Income Tax Identification number is \_\_\_\_\_.

The undersigned have read and hereby approve the instructions as given above governing the administration of this escrow and do hereby execute this Agreement this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

**Contractor:**

**The Northwest Seaport Alliance**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name/Title

\_\_\_\_\_  
Name/ Port Treasurer or Deputy Treasurer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

The above escrow instructions received and accepted this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

**Bank:**

By \_\_\_\_\_  
(Signature of Authorized Bank Officer)

Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**SECURITIES AUTHORIZED BY THE PORT:**

1. FDIC insured time deposits and time deposits in commercial banks authorized by the Washington State Public Deposit Protection Commission.
2. Savings account deposits in commercial banks authorized by the Washington State Public Deposit Protection Commission.
3. Bills, certificates, notes or bonds of the United States;
4. Other obligations of the United States or its agencies; and
5. Obligation of any corporation wholly-owned by the government of the United States;

**INSTRUCTIONS FOR RETAINAGE ESCROW AGREEMENTS:**

Whenever possible, use The Port of Tacoma (Port) approved Escrow Agreement. The Port, at its discretion, may or may not accept an agreement form from another source.

Please return all three (3) originals of the Agreement, with completed contractor and bank information and signatures, and the escrow account number. The Port will review and sign the Agreement and distribute copies. One (1) original will go directly to the Bank, one (1) original will be returned to the Contractor.

Fill in the following on the Escrow Agreement:

- 1) Page 1 – Escrow Account Number
- 2) Page 1 – Name, address, and phone number of the Bank
- 3) Page 2 – Signature, typed/printed name, date, and the title of the Contractor Signatory.
- 4) Page 2 – Signature, typed/printed name, date, and the title of the Authorized Bank Officer signatory.

Do not fill in the date in the paragraph directly following paragraph 9. The Port will fill in this date once the document has been fully executed by the Port.



DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS  
SECTION 00 63 25 – SUBSTITUTION REQUEST FORM DURING CONSTRUCTION

**Project Title** \_\_\_\_\_

**Project No.** \_\_\_\_\_

Submitted By: \_\_\_\_\_

Contract No. \_\_\_\_\_

Contractor: \_\_\_\_\_

Date: \_\_\_\_\_

Specification Title: \_\_\_\_\_

Section No. \_\_\_\_\_

Description: \_\_\_\_\_

Paragraph: \_\_\_\_\_

Page No. \_\_\_\_\_

Proposed Substitution: \_\_\_\_\_

Trade Name: \_\_\_\_\_ Model No.: \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Address: \_\_\_\_\_ Phone No.: \_\_\_\_\_

Installer: \_\_\_\_\_

Address: \_\_\_\_\_ Phone No.: \_\_\_\_\_

History:

☐ New product ☐ 1-4 years old ☐ 5-10 years old ☐ More than 10 years old ☐ Other \_\_\_\_\_

Differences between proposed substitution and specified product: \_\_\_\_\_

☐ Point-by-point comparative data attached - REQUIRED

Reason for not providing specified item: \_\_\_\_\_

Similar Installation:

Project: \_\_\_\_\_ A/E \_\_\_\_\_

Address: \_\_\_\_\_

Owner: \_\_\_\_\_ Date Installed: \_\_\_\_\_

Proposed substitution affects other parts of Work: ☐ No ☐ Yes; explain \_\_\_\_\_

Savings to Port for accepting substitution: \$ \_\_\_\_\_

Proposed substitution changes Contract Time: ☐ No ☐ Yes [Add] [Deduct] \_\_\_\_\_ # of days.

Supporting Data Attached: \_\_\_\_\_

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS  
SECTION 00 63 25 – SUBSTITUTION REQUEST FORM DURING CONSTRUCTION

---

☐ Drawings   ☐ Product Data   ☐ Samples   ☐ Tests   ☐ Reports   ☐ Other \_\_\_\_\_

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
  - Same warranty will be furnished for proposed substitution as for specified product.
  - Same maintenance service and source of replacement parts, as applicable, is available.
  - Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
  - Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
  - Proposed substitution does not affect dimensions and functional clearances.
  - Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
  - Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.
- 

Submitted By: \_\_\_\_\_

Signed By: \_\_\_\_\_ Firm: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Email: \_\_\_\_\_

Attachments: \_\_\_\_\_

---

**A/E's REVIEW AND RECOMMENDATION**

- ☐ Approve Substitution
- ☐ Approve Substitution as noted
- ☐ Reject Substitution - Use specified materials.
- ☐ Substitution Request received too late - Use specified materials.

Signed by: \_\_\_\_\_ Date: \_\_\_\_\_

---

**ENGINEER'S REVIEW AND ACTION**

- ☐ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures. Prepare Change Order.
- ☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures. Prepare Change Order.
- ☐ Substitution rejected - Use specified materials.

Signed by: \_\_\_\_\_ Date: \_\_\_\_\_

**END OF SECTION**

## TABLE OF CONTENTS

ARTICLE 1	THE CONTRACT DOCUMENTS.....	3
1.01	General .....	3
1.02	Definitions .....	3
1.03	Intent of the Contract Documents .....	4
1.04	Correlation of the Contract Documents.....	4
1.05	Ownership of the Contract Documents .....	5
ARTICLE 2	PORT OF TACOMA.....	5
2.01	Authority of the Engineer .....	5
2.02	Administration of the Contract.....	5
2.03	Information Provided by the Port .....	5
2.04	Contractor Review of Project Information .....	6
2.05	Port's Right to Reject, Stop and/or Carry-Out the Work .....	6
2.06	Separate Contractors .....	7
2.07	Officers and Employees of the Port .....	7
ARTICLE 3	CONTRACTOR'S RESPONSIBILITIES .....	7
3.01	Duty to Perform the Entire Work.....	7
3.02	Observed Errors, Inconsistencies, Omissions or Variances in the Contract Documents .....	7
3.03	Supervision and Responsibility for Subcontractors.....	8
3.04	Materials and Equipment .....	8
3.05	Contractor Warranties.....	8
3.06	Required Wages .....	9
3.07	State and Local Taxes .....	9
3.08	Permits, Licenses, Fees, and Royalties.....	10
3.09	Safety.....	10
3.10	Correction of Work.....	10
3.11	Uncovering of Work .....	11
3.12	Relocation of Utilities .....	11
3.13	Labor.....	12
3.14	Indemnification.....	12
3.15	Waiver of Consequential Damages .....	13
ARTICLE 4	SUBCONTRACTORS AND SUPPLIERS.....	13
4.01	Responsibility for Actions of Subcontractors and Suppliers.....	13
4.02	Award of Contracts to Subcontractors and Suppliers .....	13
4.03	Subcontractor and Supplier Relations .....	14
ARTICLE 5	WORKFORCE AND NON-DISCRIMINATION REQUIREMENTS.....	14
5.01	Compliance with Non-Discrimination Laws.....	14
5.02	Small Business Enterprise Participation. ....	15
ARTICLE 6	CONTRACT TIME AND COMPLETION.....	15
6.01	Contract Time .....	15
6.02	Progress and Completion .....	15
6.03	Substantial Completion.....	16
6.04	Completion of Punch List.....	16

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS  
SECTION 00 72 00 - GENERAL CONDITIONS

---

6.05	Final Completion .....	16
6.06	Final Acceptance .....	17
6.07	Port's Right to Use the Premises .....	17
ARTICLE 7	PAYMENT .....	17
7.01	All Payments Subject to Applicable Laws and Schedule of Values .....	17
7.02	Applications for Payment .....	18
7.03	Progress Payments .....	18
7.04	Payment by Contractor to Subcontractors .....	18
7.05	Final Payment .....	18
7.06	Retainage .....	19
7.07	Disputed Amounts .....	20
7.08	Effect of Payment .....	20
7.09	Liens .....	20
ARTICLE 8	CHANGES IN THE WORK .....	20
8.01	Changes in the Work .....	20
8.02	Changes in the Contract Sum .....	23
8.03	Changes in the Contract Time .....	25
8.04	Reservation of Rights .....	26
8.05	Unit Prices .....	27
ARTICLE 9	SUSPENSION AND TERMINATION OF CONTRACT .....	27
9.01	Port's Right to Suspend Work .....	27
9.02	Termination of Contract for Cause by the Port .....	27
9.03	Termination of Contract for Convenience by the Port .....	28
9.04	Termination of Contract by the Contractor .....	28
9.05	Subcontract Assignment Upon Termination .....	29
ARTICLE 10	BONDS .....	29
10.01	Contractor Performance and Payment Bonds .....	29
ARTICLE 11	DISPUTE RESOLUTION .....	29
11.01	Notice of Protest and Claim .....	29
11.02	Mediation .....	31
11.03	Litigation .....	31
ARTICLE 12	MISCELLANEOUS .....	32
12.01	General .....	32
12.02	Waiver .....	32
12.03	Governing Law .....	32
12.04	Compliance with Law .....	32
12.05	Assignment .....	33
12.06	Time Limit on Causes of Action .....	33
12.07	Service of Notice .....	33
12.08	Records .....	33
12.09	Statutes .....	34

## **ARTICLE 1 - THE CONTRACT DOCUMENTS**

### **1.01 GENERAL**

- A. Contract Documents form the Contract. The Contract Documents are enumerated in the Agreement between the Port and Contractor ("Agreement"). Together, the Contract Documents form the Contract. The Contract represents the entire integrated agreement between the parties and supersedes all prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only in writing and only as set forth in the Contract Documents.
- B. Headings only for convenience. The titles or headings of the sections, divisions, parts, articles, paragraphs, and subparagraphs of the Contract Documents are intended only for convenience.

### **1.02 DEFINITIONS**

- A. "Contractor" means the person or entity contracting to perform the Work under these Contract Documents. The term Contractor includes the Contractor's authorized representative for purposes of identifying obligations and responsibilities under the Contract Documents, including the ability to receive notice and direction from the Port.
- B. "Day" means a calendar day unless otherwise specifically designated.
- C. "Drawings" are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, including plans, elevations, sections, details, and diagrams.
- D. "Engineer" is the Port employee generally tasked with administering the Project on the Port's behalf and the person with overall responsibility for managing, for the Port, the Project scope, budget, and schedule. To the extent empowered, the Engineer may delegate to others at the Port (such as a Project Manager or Inspector) the responsibility for performing delegated responsibilities of the Engineer's under this Contract.
- E. "Port" means the Port of Tacoma. The Port will designate in writing a representative (usually the Engineer) who shall have the authority to act on the Port's behalf related to the Project. The "Port" does not include staff, maintenance or safety workers, or other Port employees or consultants that may contact the Contractor or be present at the Project site.
- F. "Project" is identified in the Agreement and is the total construction to be performed by or through the Port, of which the Work performed under the Contract Documents may be only a part.
- G. "Specifications" are those portions of the Contract Documents that specify the written requirements for materials, equipment, systems, standards and workmanship for the Work and for the performance of related services.
- H. "Subcontractor" means a person or entity that contracts directly with the Contractor to perform any Work under the Contract Documents. "Subcontractor of any tier" includes Subcontractors as well as any other person or entity, including suppliers, that contracts with a Subcontractor or a lower-tier Subcontractor (also referred to as "Sub-subcontractors") to perform any of the Work.
- I. "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all labor, tools, equipment, materials, services and incidentals necessary to complete all obligations under the Contract Documents. The Work may constitute only a part of the Project, and may interface and need to be coordinated with the work of others.

### 1.03 INTENT OF THE CONTRACT DOCUMENTS

- A. Intent of Contract Documents. The intent of the Contract Documents is to describe the complete Work and to include all items necessary for the proper execution and completion of the Work by the Contractor.
- B. Contract Documents are complementary. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor is required to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.
- C. No third party contract rights. The Contract Documents shall not create a contractual relationship of any kind (1) between the Port and a Subcontractor of any tier (although the Port does not waive any third-party beneficiary rights it may otherwise have as to Subcontractors of any tier), (2) between the Contractor and the Engineer or other Port employees or consultants, or (3) between any persons or entities other than the Port and Contractor.

### 1.04 CORRELATION OF THE CONTRACT DOCUMENTS

- A. Precedence. In the event of a conflict or discrepancy between or among the Contract Documents, the conflict or discrepancy will be resolved by the following order of precedence: with an addendum or Change Order having precedence over an earlier document, and computed dimensions having precedence over scaled dimensions and large scale drawings take precedence over small scale drawings:
  - 1. The signed Agreement
    - a. Supplemental Conditions
    - b. General Conditions
    - c. Division 01 General Requirements of Specifications
    - d. All other Specifications, including all remaining divisions, material and system schedules and attachments, and Drawings
    - e. All other sections in Division 00 not specifically identified herein by Section.
- B. Inconsistency between or among Contract Documents. If there is any inconsistency between the Drawings, schedules, or Specifications, or any attachments, the Contractor will make an inquiry to the Engineer to determine how to proceed, and, unless otherwise directed, the Contractor will provide the better quality or greater quantity of any work or materials, as reasonably interpreted by the Port, at no change in the Contract Sum or Contract Time. Thus, if Work is shown on Drawings but not contained in Specifications or schedules, or contained in Specifications or schedules but not shown on the Drawings, the Work as shown or contained will be provided at no change in the Contract Sum or Contract Time, according to Specifications or Drawings to be issued by the Port.
- C. Inconsistency with law. In the event of a conflict between the Contract Documents and applicable laws, codes, ordinances, regulations or orders of governmental authorities having jurisdiction over the Work, or in the event of any conflict between such laws, the most stringent requirements govern.
- D. Organization of Contract Documents. The organization of the Specifications and Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of the Work to be performed. The Port assumes no responsibility for the division and proper coordination of Work between particular Subcontractors.

- E. Bid quantities are estimates only. Any "bid quantities" set forth in the Contract Documents are estimates only. The Port does not warrant that the actual amount of Work will correspond to any estimates. The basis of payment will be the actual quantities performed in accordance with the Contract Documents.

#### 1.05 OWNERSHIP OF THE CONTRACT DOCUMENTS

- A. Port owns all Contract Documents. All Drawings, Specifications, and other Contract Documents furnished to the Contractor are Port property, and the Port retains all intellectual property rights, including copyrights. The Contract Documents are to be used only with respect to the Project.

### ARTICLE 2 - PORT OF TACOMA

#### 2.01 AUTHORITY OF THE ENGINEER

- A. Engineer will be Port's representative. The Engineer or the Engineer's designee will be the Port's representative during the Project and will administer the Project on the Port's behalf.
- B. Engineer may enforce all obligations. The Engineer has the authority to enforce all requirements imposed on the Contractor by the Contract Documents.
- C. Only Engineer is agent of Port. Other than the Engineer, no other Port employee or consultant is an agent of the Port, and none are authorized to agree on behalf of the Port to changes in the Contract Sum or Contract Time, nor to waive provisions of the Contract Documents, nor to direct the Contractor to take actions that change the Contract Sum or Contract Time, nor to accept notice of protests or claims on behalf of the Port.

#### 2.02 ADMINISTRATION OF THE CONTRACT

- A. Port will administer Contract. The Port will provide administration of the Contract through the Engineer or the Engineer's designee. All communications with the Port or its consultants related to the Contract will be through the designated representative.
- B. Port not responsible for means and methods. The Port is not responsible for, and will have no control or charge of, the means, methods, techniques, sequences, or procedures of construction, or for safety precautions or programs incidental thereto, because these are the sole responsibility of the Contractor. If the Port makes any suggestion of means, methods, techniques, sequences or procedures, the Contractor will exercise its independent judgment in deciding whether to adopt the suggestion, except as otherwise provided in the Contract Documents.
- C. Port not responsible for acts or omissions of Contractor or Subcontractors. The Port is not responsible for, and will have no control or charge of, the acts or omissions of the Contractor, Subcontractors of any tier, suppliers, or any of their agents or employees, or any other persons performing a portion of the Work.
- D. Port not responsible for the Work. The Port is not responsible for the Contractor's failure to carry out the Work in accordance with the Contract Documents. The presence of the Engineer or others at the Project site at any time does not relieve the Contractor from its responsibility for non-conforming Work.
- E. Port will have access to the Work. The Port and its representatives will at all times have access to the Work in progress, and the Contractor will provide proper facilities for such access and for inspection.

#### 2.03 INFORMATION PROVIDED BY THE PORT

- A. Port to furnish information with reasonable promptness. The Port shall furnish information and services required of the Port by the Contract Documents with reasonable promptness.

- B. Subsurface investigation. The Port may have undertaken a limited investigation of the soil and other subsurface conditions at the Project site for design purposes only. The results of these investigations will be available for the convenience of the Contractor, but they are not Contract Documents. There is no warranty or guarantee, express or implied, that the conditions indicated are representative of those existing at the site or that unforeseen developments may not occur. The Contractor is solely responsible for interpreting the information.

#### 2.04 CONTRACTOR REVIEW OF PROJECT INFORMATION

- A. Contractor to familiarize itself with site and conditions of Work. Prior to executing the Contract, the Contractor shall visit the site, become generally familiar with local conditions under which the Work is to be performed, and correlate personal observations with the requirements of the Contract Documents. By signing the Contract, the Contractor confirms that the Contract Sum is reasonable compensation for the Work; that the Contract Time is adequate; that it has carefully examined the Contract Documents and the Project site; and that it has satisfied itself as to the nature, location, and character of the Work, the labor, materials, equipment, and other items required and all other requirements of the Contract Documents. The Contractor's failure fully to acquaint itself with any such condition does not relieve the Contractor from the responsibility for performing the Work in accordance with the Contract Documents, within the Contract Time, and for the Contract Sum.
- B. Contractor to review Contract Documents. Because the Contract Documents are complementary, the Contractor will, before starting each portion of the Work, carefully study and compare the various Drawings, Specifications, and other Contract Documents, as well as all information furnished by the Port.
- C. Contractor to confirm field conditions. Before starting each portion of the Work the Contractor shall take field measurements of and verify any existing conditions, including all Work in place, and all general reference points; shall observe any conditions at the site affecting the Contractor; and shall carefully compare field measurements, conditions and other information known to the Contractor with the Contract Documents.

#### 2.05 PORT'S RIGHT TO REJECT, STOP AND/OR CARRY-OUT THE WORK

- A. Port may reject Work. The Port has the authority but not the obligation to reject work, materials and equipment that is defective or that otherwise does not conform to the Contract Documents, and to decide questions concerning the Contract Documents. However, the failure to so reject or the presence of the Port at the site shall not be construed as assurance that the Work is acceptable or being completed in compliance with the Contract Documents.
- B. Port may stop Work. If the Contractor fails to correct Work that does not comply with the requirements of the Contract Documents, or repeatedly or materially fails to properly carry out the Work, the Port may issue an order to stop all or a portion of the Work until the cause for the order has been eliminated. The Port's right to stop the Work shall not impose a duty on the Port to exercise this right for the benefit of the Contractor or any third party.
- C. Port may carry-out Work. If the Contractor fails to perform the Work properly, fails to perform any provision of this Contract, or fails to maintain the Progress Schedule, or if the Port reasonably concludes that the Work will not be completed in the specified manner or within the Contract Time, then the Port may, after three (3) days' written notice to the Contractor and without prejudice to any other remedy the Port may have, perform itself or have performed any or all of the Work and may deduct the cost thereof from any payment then or later due the Contractor.



## 2.06 SEPARATE CONTRACTORS

- A. Port may engage separate contractors or perform work with its own forces. The Port may contract with other contractors ("Separate Contractor") in connection with the Project or perform work with its own forces. The Contractor shall coordinate and cooperate with any Port forces or Separate Contractors, as applicable. The Contractor shall provide reasonable opportunity for the introduction and storage of materials and the execution of work by others.
- B. Contractor to inspect work of others. If any part of the Contractor's Work depends on the work of the Port or any Separate Contractor, the Contractor shall inspect and promptly report to the Port, in writing, any defects that impact the Contractor. Failure of the Contractor to so inspect and report defects in writing shall constitute an acceptance by Contractor of the work of the Port or Separate Contractor.
- C. Contractor to resolve claims of others. Should the Contractor or any of its Subcontractors of any tier cause damage of any kind, including but not limited to delay, to any Separate Contractor, the Contractor shall promptly and using its best efforts settle or otherwise resolve the dispute with the Separate Contractor. The Contractor shall also promptly remedy damage caused to completed or partially completed construction.

## 2.07 OFFICERS AND EMPLOYEES OF THE PORT

- A. No personal liability. Officers, employees, and representatives of the Port, including the Commissioners, acting within the scope of their employment, shall not be personally liable to Contractor for any acts or omissions arising out of the Project.

## ARTICLE 3 - CONTRACTOR'S RESPONSIBILITIES

### 3.01 DUTY TO PERFORM THE ENTIRE WORK

- A. Contractor must perform entire Work in accordance with Contract Documents. The Contractor shall perform the entire Work required by the Contract in accordance with the Contract Documents. Unless otherwise specifically provided, the Contractor shall provide and pay for all labor, tools, equipment, materials, electricity, power, water, other utilities, transportation and other facilities necessary for the execution and completion of the Work.
- B. Contractor shall be independent contractor. The Contractor shall be and operate as an independent contractor in the performance of the Work. The Contractor is not authorized to enter into any agreements or undertakings for or on behalf of the Port and is not an agent or employee of the Port.

### 3.02 OBSERVED ERRORS, INCONSISTENCIES, OMISSIONS OR VARIANCES IN THE CONTRACT DOCUMENTS

- A. Contractor to notify Port of any discrepancy. The Contractor's obligations to review and carefully study the Contract Documents and field conditions are for the purpose of facilitating coordination and construction. If the Contractor at any time observes that the Contract Documents, including Drawings and Specifications, vary from the conditions of the Project site, are in error, or omit any necessary detail, the Contractor shall promptly notify the Engineer in writing through a Request for Information. Any Work done after such observation, until authorized by the Engineer, shall be at Contractor's risk. The Contractor shall also promptly report to the Engineer any observed error, inconsistency, omission, or variance with applicable laws through a Request for Information. If the Contractor fails either to carefully study and compare the Contract Documents, or to promptly report any observed error, inconsistency, omission, or variance, the Contractor shall assume full responsibility and shall bear all costs, liabilities and damages attributable to the error, inconsistency, omission, or variance.

- B. Requests for Information. The Contractor shall submit Requests for Information concerning the Contract Documents by following the procedure and using such form as the Port may require. The Contractor shall minimize Requests for Information by thoroughly studying the Contract Documents and reviewing all Subcontractor requests. The Contractor shall allow adequate time in its planning and scheduling for a response from the Port to a Request for Information.
- C. Port may provide information to supplement Drawings and Specifications. Minor items of work or detail that are omitted from the Drawings and Specifications but inferable from the information presented and normally provided by accepted good practice shall be provided and/or performed by the Contractor as part of the Contract Sum and within the Contract Time. Similarly, the Engineer may furnish to the Contractor additional Drawings and clarifications, consistent with the Contract Documents, as necessary to detail and illustrate the Work. The Contractor shall conform its Work to such additional Drawings and clarifications at no increase in the Contract Sum or Contract Time.

### 3.03 SUPERVISION AND RESPONSIBILITY FOR SUBCONTRACTORS

- A. Contractor responsible for Work and workers. The Contractor shall have complete control of the means, methods, techniques, sequences or procedures related to the Work, and for all safety precautions or programs. The Contractor shall have complete control over and responsibility for all personnel performing the Work. The Contractor is also responsible for the acts and omissions of the Contractor's principals, employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors of any tier.
- B. Contractor to supervise the Work. The Contractor shall continuously supervise and direct the Work using competent and skilled personnel and the Contractor's best skill and attention.
- C. Contractor to enforce discipline and good order. The Contractor shall enforce strict discipline and good order among all workers on the Project, and shall not employ any unfit person or anyone not skilled in the work to which they are assigned. Incompetent, careless, or negligent workers shall immediately be removed from the Work. The Port may, but is not obligated to, require the Contractor to remove from the Work, at no change in the Contract Sum or Contract Time, anyone whom the Port considers objectionable.

### 3.04 MATERIALS AND EQUIPMENT

- A. Material and equipment to be new. All materials and equipment to be incorporated into the Work shall be new unless specifically provided otherwise in the Contract Documents. The Contractor shall, if required in writing by the Port, furnish satisfactory evidence regarding the kind and quality of any materials, identify the source, and warrant compliance with the Contract Documents. The Contractor shall ensure that all materials and equipment are protected, kept dry and stored under cover in a manner to protect such materials and equipment.
- B. Material and equipment shall conform to manufacturer instructions. All materials and equipment shall conform, and shall be applied, installed, used, maintained and conditioned in accordance with, the instructions of the applicable manufacturer, fabricator or processor, unless otherwise specifically provided by the Engineer.

### 3.05 CONTRACTOR WARRANTIES

- A. Work will be of good quality and performed in workmanlike manner. In addition to any specific warranties set forth in the Contract Documents, the Contractor warrants that the Work, including all materials and equipment furnished under the Contract, will be of good quality and new, will be performed in a skillful and workmanlike manner and will conform to the requirements of the

Contract Documents. Any Work not conforming to this warranty, including unapproved or unauthorized substitutions, shall be considered defective.

- B. Work will be free from defects. The Contractor warrants that the Work will be free from defects for a period of one (1) year from the date of Substantial Completion of the Project.
- C. Contractor to collect and deliver warranties to Port. The Contractor shall collect and deliver to the Port any written warranties required by the Contract Documents. These warranties shall be obtained and enforced by the Contractor for the benefit of the Port without the necessity of separate assignment. These warranties shall extend to the Port all rights, claims, benefits and interests that the Contractor may have under express or implied warranties or guarantees against a Subcontractor of any tier, supplier or manufacturer for defective or non-conforming Work. Warranty provisions that purport to limit or alter the Port's rights under the Contract Documents or the laws of the State of Washington are null and void.
- D. General requirements. The Contractor is not relieved of its general warranty obligations by the specification of a particular product or procedure in the Contract Documents. Warranties in the Contract Documents shall survive completion, acceptance and final payment.

### 3.06 REQUIRED WAGES

- A. Contractor will pay required wages. The Contractor shall pay (and shall ensure that all Subcontractors of any tier pay) all prevailing wages and other wages (such as Davis-Bacon Act wages) applicable to the Project. See Specification Section 00 73 46.
- B. The Contractor shall defend (at Contractor's sole cost, with legal counsel approved by Port), indemnify and hold the Port harmless from all liabilities, obligations, claims, demands, damages, disbursements, lawsuits, losses, fines, penalties, costs and expenses, whether direct or indirect, and including but not limited to attorneys' fees and consultants' fees and other costs and expenses of litigation, from any violation or alleged violation by the Contractor or any Subcontractor of any tier of RCW 39.12 ("Prevailing Wages on Public Works") or Chapter 51 RCW ("Industrial Insurance").

### 3.07 STATE AND LOCAL TAXES

- A. Contractor will pay taxes on consumables. The Contractor will pay the retail sales tax on all consumables used during performance of the Work and on all items that are not incorporated into the final Work; this tax shall be included in the Contract Sum.
- B. Port will pay taxes on the Contract Sum. The Port will pay state and local retail sales tax on the Contract Sum with each progress payment and on final payment for transmittal by the Contractor to the Washington State Department of Revenue or to the applicable local taxing authority. Rule 170: WAC 458-20-170.
- C. Direct all tax questions to the Department of Revenue. The Contractor should direct all questions concerning taxes on any portion of the Work to the State of Washington Department of Revenue or to the local taxing authority.
- D. State Sales Tax - Rule 171: WAC 458-20-171. For work performed related to building, repairing, or improving streets, roads, etc., which are owned by a municipal corporation, or political subdivision of the state, or by the United States, and which are used, primarily, for foot or vehicular traffic, the Contractor shall include Washington State Retail Sales Taxes in the various schedule prices, or other contract amounts, including those that the Contractor pays on the purchase of materials, equipment, or supplies used or consumed in doing the Work.
  - 1. The bid form will indicate which bid items are subject to Rule 171. Any such identification by the Port is not binding upon the Department of Revenue.

### 3.08 PERMITS, LICENSES, FEES, AND ROYALTIES

- A. Contractor to provide and pay for permits unless otherwise specified. Unless otherwise specified, the Contractor shall procure and pay for all permits, licenses, and governmental inspection fees necessary or incidental to the performance of the Work. All costs related to these permits, licenses, and inspections shall be included in the Contract Sum. Any action taken by the Port to assist the Contractor in obtaining permits or licenses shall not relieve the Contractor of its sole responsibility to obtain and pay for permits, licenses, and inspections as part of the Contract Sum.
- B. Contractor's obligations when permit must be in Port's name. When applicable law or agency requires a permit to be issued to a public agency, the Port will support the Contractor's request for the permit and accept the permit in the Port's name, if:
  - 1. The Contractor takes all necessary steps required for the permit to be issued;
  - 2. The permit applies to Work performed in connection with the Project; and
  - 3. The Contractor agrees in writing to abide by all requirements of the permit and to defend and hold harmless the Port from any liability in connection with the permit.
- C. Contractor to pay royalties. The Contractor shall pay all royalties and license fees required for the Work unless otherwise specified in the Contract Documents.

### 3.09 SAFETY

- A. Contractor solely responsible for safety. The Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work and the performance of the Contract.
- B. Port not responsible for safety. The Port may identify safety concerns to the Contractor. However, no action or inaction of the Port or any third party relating to safety will: (1) relieve the Contractor of its sole and complete responsibility for safety and sole liability for any consequences; (2) impose any obligation on the Port or a third party to inspect or review the Contractor's safety program or precautions; (3) impose any continuing obligation on the Port or a third party to ensure the Contractor performs the Work safely; or (4) affect the Contractor's responsibility for the protection of property, workers, and the general public.
- C. Contractor to maintain a safe Work site. The Project site may be occupied during performance of the Work. The safety of these site occupants is of paramount importance to the Port. The Contractor shall maintain the Work site and perform the Work in a safe manner and in accordance with the Washington Industrial Safety and Health Act (WISHA) and all other applicable safety laws, rules, and regulations. This requirement shall apply continuously and not be limited to working hours.
- D. Contractor to protect Work site and adjacent property until Final Completion. The Contractor shall continuously protect the Work and adjacent property from damage. At all times until Final Completion, the Contractor shall be responsible for and protect from damage, weather, deterioration, theft, and vandalism the Work and all materials, equipment, tools, and other items incorporated or to be incorporated in the Work, and shall repair any damage, injury or loss.

### 3.10 CORRECTION OF WORK

- A. Contractor to correct defective Work. The Contractor shall, at no cost to the Port, promptly correct Work that is defective or that otherwise fails to conform to the requirements of the Contract Documents. Such Work shall be corrected, whether before or after Substantial Completion, and even if it was previously inspected or observed by the Port.

- B. One-year correction period. The Contractor shall correct all defects in the Work appearing within one (1) year of Substantial Completion or within any longer period prescribed by law or by the Contract Documents. The Contractor shall initiate remedial action within fourteen (14) days of receipt of notice from the Port and shall complete remedial work within a reasonable time. Work corrected by the Contractor shall be subject to the provisions of this Section 3.10 for an additional one-year period following the Port's acceptance of the corrected Work.
- C. Contractor responsible for defects and failures to correct. The Contractor shall be responsible for any expenses incurred by the Port resulting from defects in the Work. If the Contractor refuses or neglects to correct the defects or does not timely accomplish corrections, the Port may correct the Work and charge the Contractor the cost of the corrections. If damage or loss of service may result from a delay in correction, the corrections may be made by the Port and reimbursed by the Contractor.
- D. Port may accept defective work. The Port may, at its sole option, elect to retain defective or nonconforming Work. In such a case, the Port shall reduce the Contract Sum by a reasonable amount to account for the defect or non-conformance.
- E. No period of limitation established. Nothing contained in this Section 3.10 establishes a period of limitation with respect to any obligations under the Contract Documents or law. The establishment of the one (1) year correction period relates only to the specific obligation of the Contractor to correct defective or non-conforming Work.

### 3.11 UNCOVERING OF WORK

- A. Contractor to uncover work covered prior to inspection. If any portion of the Work is covered prior to inspection and approval, the Contractor shall, at its expense, uncover or remove the Work for inspection by the Port or others, and replace the Work to the standard required by the Contract Documents.
- B. Contractor to uncover work at Port's request. After initial inspection and observation, the Port may order a reexamination of Work, and the Work must be uncovered by the Contractor. If the uncovered Work complies with the Contract Documents, the Port shall pay the cost of reexamination and replacement. If the Work is found not to comply with the Contract Documents, the Contractor shall pay the cost of replacement unless the Contractor demonstrates that it did not cause the defect in the Work.

### 3.12 RELOCATION OF UTILITIES

- A. Contractor should assume underground utilities are in approximate locations. The Contractor should assume that the locations of any underground or hidden utilities, underground tanks, and plumbing or electrical runs indicated in surveys or the Contract Documents are shown in approximate locations. The accuracy of this information is not guaranteed by the Port and shall be verified by the Contractor. The Contractor shall comply with RCW 19.122.030 and utilize a utility locator service to locate utilities on Port property. The Contractor shall bear the risk of loss if any of its Work directly or indirectly damages or interrupts any utility service or causes or contributes to damages of any nature.
- B. Utility relocation or removal. Where relocation or removal of utilities is necessary or required, it shall be performed at the Contractor's sole expense, unless the Contract Documents specify otherwise. If a utility owner is identified as being responsible for relocating or removing utilities, the work will be accomplished at the utility owner's convenience, either during or in advance of construction. Unless otherwise specified, it shall be the Contractor's sole responsibility to coordinate, schedule, and pay for work performed by a utility owner.

- C. Contractor to notify Port of unknown utilities. If the Contractor discovers the presence of any unknown utilities, it shall immediately notify the Engineer in writing.

### 3.13 LABOR

- A. Contractor responsible for labor peace. The Contractor is responsible for labor peace relating to the Work and shall cooperate in maintaining Project-wide labor harmony. The Contractor shall use its best efforts as an experienced contractor to adopt and implement policies and practices designed to avoid work stoppages, slowdowns, disputes or strikes.
- B. Contractor to minimize impact of labor disputes. The Contractor will take all necessary steps to prevent labor disputes from disrupting or otherwise interfering with access to Port property. If a labor dispute disrupts the progress of the Work or interferes with access, the Contractor shall promptly and expeditiously take all necessary action to eliminate or minimize the disruption or interference.

### 3.14 INDEMNIFICATION

- A. Duty to defend, indemnify, and hold harmless. To the fullest extent permitted by law and subject to this Section 3.14, the Contractor shall defend (at the Contractor's sole cost, with legal counsel approved by Port), indemnify and hold harmless the Port, including its Commission, officers, managers, employees (including the Engineer), any consultants, and the agents and employees, successors and assigns of any of them (the "Indemnified Parties") from and against claims, damages, lawsuits, losses (including loss of use), disbursements, liabilities, obligations, fines, penalties, costs and expenses, whether direct and indirect or consequential, including but not limited to consultants' fees, and attorneys' fees incurred on such claims and in proving the right to indemnification ("Claims"), arising out of or resulting from the acts or omissions of the Contractor, a Subcontractor of any tier, their agents and anyone directly or indirectly employed by any of them or anyone for whose acts they may be liable (individually and collectively, the "Indemnitor").
- B. Duty to defend, indemnify, and hold harmless for sole negligence. The Contractor will fully defend, indemnify, and hold harmless the Indemnified Parties for the sole negligence or willful misconduct of the Indemnitor.
- C. Duty to defend, indemnify, and hold harmless for concurrent negligence. Where Claims arise from the concurrent negligence of (1) the Port and (2) the Indemnitor, the Contractor's obligations to indemnify and defend the Indemnified Parties under this Section 3.14 shall be effective only to the extent of the Indemnitor's negligence.
- D. Duty to indemnify not limited by workers' compensation or similar employee benefit acts. In claims against any of the Indemnified Parties by an employee of the Contractor, a Subcontractor of any tier, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under this Section 3.14 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable under workers' compensation acts, disability benefit acts or other employee benefit acts. After mutual negotiation of the parties, the Contractor waives immunity as to the Indemnified Parties under Title 51 RCW, "Industrial Insurance."
- E. Intellectual property indemnification. The Contractor will be liable for and shall defend (at the Contractor's sole cost, with legal counsel approved by Port) indemnify and hold the Indemnified Parties harmless for Claims for infringement by the Contractor of copyrights or patent rights arising out of or relating to the Project.
- F. Labor peace indemnification. If the Contractor fails to satisfy its labor peace obligations under the Contract, the Contractor will be liable for and shall defend (at the Contractor's sole cost, with

legal counsel approved by Port), indemnify and hold harmless the Indemnified Parties for Claims brought against the Port by third parties (including but not limited to lessees, tenants, contractors, customers, licensees and invitees of the Port) for injunctive relief or monetary loss.

- G. Joinder. The Contractor agrees to being added by the Port as a party to any arbitration or litigation with third parties in which the Port alleges indemnification or seeks contribution from the Indemnitor. The Contractor shall cause each of its Subcontractors of any tier to similarly stipulate in their subcontracts; in the event any does not, the Contractor shall be liable in place of such Subcontractor(s) of any tier.
- H. Other. To the extent that any portion of this Section 3.14 is stricken by a court or arbitrator for any reason, all remaining provisions shall retain their vitality and effect. The obligations of the Contractor under this Section 3.14 shall not be construed to negate, abridge, or otherwise reduce any other right or obligations of indemnity which would otherwise exist. To the extent the wording of this Section 3.14 would reduce or eliminate an available insurance coverage, it shall be considered modified to the extent necessary so that the insurance coverage is not affected. This Section 3.14 shall survive completion, acceptance, final payment and termination of the Contract.

### 3.15 WAIVER OF CONSEQUENTIAL DAMAGES

- A. Mutual waiver of consequential damages. The Contractor and Port waive claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes but is not limited to: (1) damages incurred by the Port for rental expenses, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and (2) damages incurred by the Contractor for principal and home office overhead and expenses including but not limited to the compensation of personnel stationed there, for losses of financing, business and reputation, for losses on other projects, for loss of profit, and for interest or financing costs. This mutual waiver includes but is not limited to all consequential damages due to either party's termination.
- B. Limitation. Nothing contained in this Section 3.15, however, shall be deemed to preclude an award of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents, to preclude damages specified in the Agreement or to affect the Contractor's obligation to indemnify the Port for direct, indirect or consequential damages alleged by a third party.

## ARTICLE 4 - SUBCONTRACTORS AND SUPPLIERS

### 4.01 RESPONSIBILITY FOR ACTIONS OF SUBCONTRACTORS AND SUPPLIERS.

- A. Contractor responsible for Subcontractors. The Contractor is fully responsible to the Port for the acts and omissions of its Subcontractors of any tier and all persons either directly or indirectly employed by the Contractor or its Subcontractors.

### 4.02 AWARD OF CONTRACTS TO SUBCONTRACTORS AND SUPPLIERS

- A. Contractor to provide proposed Subcontractor information. The Contractor, within ten (10) days after the Port's notice of award of the Contract, shall provide to the Engineer with the names of the persons or entities proposed to perform each of the principal portions of the Work (i.e., either a Subcontractor listed in a bid or proposal or a Subcontractor performing Work valued at least ten percent (10%) of the Contract Sum) and the proprietary names and the suppliers of the principal items or systems of materials and equipment proposed for the Work. No progress payment will become due until after this information has been furnished.
- B. Port to respond promptly with objections. The Port may respond promptly to the Contractor in writing stating (1) whether the Port has reasonable objection to any proposed person or entity or

(2) whether the Port requires additional time for review. If the Port makes a reasonable objection, the Contractor shall replace the Subcontractor with no increase to the Contract Sum or Contract Time. Such a replacement shall not relieve the Contractor of its responsibility for the performance of the Work and compliance with all of the requirements of the Contract within the Contract Sum and Contract Time.

- C. Reasonable objection defined. "Reasonable objection" as used in this Section 4.02 includes but is not limited to: (1) a proposed Subcontractor of any tier different from the entity listed with the bid, (2) lack of "responsibility" of the proposed Subcontractor, as defined by Washington law and the Bidding Documents, or lack of qualification or responsibility of the proposed Subcontractor based on the Contract or Bidding Documents, or (3) failure of the Subcontractor to perform satisfactorily in the Port's opinion (such as causing a material delay or submitting a claim that the Port considers inappropriate) on one or more projects for the Port within five (5) years of the bid date.
- D. No substitution allowed without permission. The Contractor shall not substitute a Subcontractor, person, or organization without the Engineer's written consent.

#### 4.03 SUBCONTRACTOR AND SUPPLIER RELATIONS

- A. Contractor to schedule, supervise, and coordinate Subcontractors. The Contractor shall schedule, supervise and coordinate the operations of all Subcontractors of any tier, including suppliers. The Contractor shall ensure that appropriate Subcontractors coordinate the Work of lower-tier Subcontractors.
- B. Subcontractors to be bound to Contract Documents. By appropriate agreement, the Contractor shall require each Subcontractor and supplier to be bound to the terms of the Contract Documents and to assume toward the Contractor, to the extent of their Work, all of the obligations that the Contractor assumes toward the Port under the Contract Documents. Each subcontract shall preserve and protect the rights of the Port and shall allow to the Subcontractor, unless specifically provided in the subcontract, the benefit of all rights, remedies and redress against the Contractor that the Contractor, by the Contract Documents, has against the Port. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with lower-tier Subcontractors.
- C. Contractor to correct deficiencies in Subcontractor performance. When a portion of the Work subcontracted by the Contractor is not being prosecuted in accordance with the Contract Documents, or if such subcontracted Work is otherwise being performed in an unsatisfactory manner in the Port's opinion, the Contractor shall, on its own initiative or upon the written request of the Port, take immediate steps to correct the deficiency or remove the non-performing party from the Project. The Contractor shall replace inadequately performing Subcontractors upon request of the Port at no change in the Contract Sum or Contract Time.
- D. Contractor to provide subcontracts. Upon request, the Contractor will provide the Port copies of written agreements between the Contractor and any Subcontractor.

### ARTICLE 5 - WORKFORCE AND NON-DISCRIMINATION REQUIREMENTS

#### 5.01 COMPLIANCE WITH NON-DISCRIMINATION LAWS

- A. Contractor to comply with non-discrimination laws. The Contractor shall fully comply with all applicable laws, regulations, and ordinances pertaining to non-discrimination.



## 5.02 SMALL BUSINESS ENTERPRISE PARTICIPATION.

- A. Small business participation encouraged. The Port's policy is to encourage the Contractor to solicit and document participation, and to provide and promote the maximum lawful, practicable opportunity for increased participation, by small business enterprises.

## ARTICLE 6 - CONTRACT TIME AND COMPLETION

### 6.01 CONTRACT TIME

- A. Contract Time is measured from Contract execution. Unless otherwise provided in the Agreement, the Contract Time is the period of time, including authorized adjustments, specified in the Contract Documents from the date the Contract is executed to the date Substantial Completion of the Work is achieved.
- B. Commencement of the Work. The Contractor shall begin Work in accordance with the notice of award and the notice to proceed and shall complete all Work within the Contract Time. When the Contractor's signed Agreement, required insurance certificate with endorsements, bonds and other submittals required by the notice of award have been accepted by the Port, the Port will execute the Contract and, following receipt of other required pre-work submittals, will issue a notice to proceed to allow the Contractor to mobilize and commence physical Work at the Project site, as further described in these contract documents. No Work at the Project site may commence until the Port issues a notice to proceed.
- C. Contractor shall achieve specified completion dates. The Contractor shall achieve Substantial Completion within the Contract Time and shall achieve Final Completion within the time period thereafter stated in the Contract Documents.
- D. Time is of the essence. Time limits stated in the Contract Documents, including any interim milestones, are of the essence of the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

### 6.02 PROGRESS AND COMPLETION

- A. Contractor to maintain schedule. The Contractor's sequence and method of operations, application of effort, and work force shall at all times be created and implemented to ensure the orderly, expeditious, and timely completion of the Work and performance of the Contract. The Contractor shall furnish sufficient forces and shall work such hours, including extra shifts, overtime operations and weekend and holiday work as may be necessary to ensure completion of the Work within the Contract Time and the approved Progress Schedule.
- B. Contractor to take necessary steps to meet schedule. If the Contractor fails substantially to perform in a timely manner in accordance with the Contract Documents and, through the fault of the Contractor or Subcontractor(s) of any tier, fails to meet the Progress Schedule, the Contractor shall take such steps as may be necessary to immediately improve its progress by increasing the number of workers, shifts, overtime operations or days of work, or by other means and methods, all without additional cost to the Port. If the Contractor believes that any action or inaction of the Port constitutes acceleration, the Contractor shall immediately notify the Port in writing and shall not accelerate the Work until the Port either directs the acceleration in writing or denies the constructive acceleration.
- C. Liquidated damages not exclusive. Any provisions in the Contract Documents for liquidated damages shall not preclude other damages due to breaches of Contract of the Contractor.

### 6.03 SUBSTANTIAL COMPLETION

- A. Substantial Completion defined. Substantial Completion is the stage in the progress of the Work, or portion or phase thereof, when the Work or designated portion is sufficiently complete

in accordance with the Contract Documents so that the Port can fully occupy or utilize the Work, or the designated portion thereof, for its intended use, all requirements in the Contract Documents for Substantial Completion have been achieved, and all required documentation has been properly submitted to the Port in accordance with the Contract Documents. All Work other than incidental corrective or punch list Work and final cleaning must be completed. The fact that the Port may occupy the Work or a designated portion thereof does not indicate that Substantial Completion has occurred or that the Work is acceptable in whole or in part.

- B. Work not Substantially Complete unless Final Completion attainable. The Work is not Substantially Complete unless the Port reasonably judges that the Work can achieve Final Completion within the period of time specified in the Contract Documents.
- C. Notice of Substantial Completion. When the Work or designated portion has achieved Substantial Completion, the Port will provide a notice to establish the date of Substantial Completion. The notice shall establish responsibilities of the Port and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Contractor shall finish all remaining Work. If the notice of Substantial Completion does not so state, all responsibility for the foregoing items shall remain with the Contractor until Final Completion.

#### 6.04 COMPLETION OF PUNCH LIST

- A. Contractor shall complete punch list items prior to Final Completion. The Contractor shall cause punch list items to be completed prior to Final Completion. If, after Substantial Completion, the Contractor does not expeditiously proceed to correct punch list items or if the Port considers that the punch list items are unlikely to be completed prior to the date established for Final Completion (or such other period of time as is specified in the Contract Documents), the Port may, upon seven (7) days' written notice to the Contractor, take over and perform some or all of the punch list items. The Port may also take over and complete any portion of the Work at any time following Substantial Completion and deduct the actual cost of performing the Work (including direct and indirect costs) from the Contract Sum. The Port's rights under this Section 6.04 are not obligations and shall not relieve the Contractor of its responsibilities under any other provisions of the Contract Documents.

#### 6.05 FINAL COMPLETION

- A. Final Completion. Upon receipt of written notice from the Contractor that all punch list items and other Contract requirements are completed, the Contractor will notify the Port, and the Port will perform a final inspection. If the Port determines that some or all of the punch list items have not been addressed, the Contractor shall be responsible to the Port for all costs, including re-inspection fees, for any subsequent reviews to determine completion of the punch list. When the Port determines that all punch list items have been satisfactorily addressed, that the Work is acceptable under the Contract Documents and that the Work has fully been performed, the Port will promptly notify the Contractor of Final Completion.
- B. Contractor responsible for costs if Final Completion is not timely achieved. In addition to any liquidated damages, the Contractor is liable for, and the Port may deduct from any amounts due the Contractor, all costs incurred by the Port for services performed after the contractual date of Final Completion, whether or not those services would have been performed prior to that date had Final Completion been timely achieved.
- C. Final Completion submittals. The Port is not obligated to accept the Project as complete until the Contractor has submitted all required submittals to the Port.
- D. Contractor responsible for the Work until Final Completion. The Contractor shall assume the sole risk of loss and responsibility for all Work under the Contract, and all materials to be

incorporated in the Work, whether in storage or at the Project site, until Final Completion. Damage from any cause to either permanent or temporary Work, utilities, materials, equipment, existing structures, the site, or other property owned by the Port or others, shall be repaired by the Contractor to the reasonable satisfaction of the Port at no change in the Contract Sum.

#### 6.06 FINAL ACCEPTANCE

- A. Final Acceptance. Final Acceptance is the formal action of the Port accepting the Project as complete. Public notification of Final Acceptance will be posted on the Port's external website (<<http://www.portoftacoma.com/final-acceptance>>).
- B. Final Acceptance not an acceptance of defective Work. Final Acceptance shall not constitute acceptance by the Port of unauthorized or defective Work, and the Port shall not be prevented from requiring the Contractor to remove, replace, repair, or dispose of unauthorized or defective Work or recovering damages due to the same.
- C. Completion of Work under RCW 60.28. Pursuant to RCW 60.28, "Lien for Labor, Materials, Taxes on Public Works," completion of the Contract Work shall occur upon Final Acceptance.

#### 6.07 PORT'S RIGHT TO USE THE PREMISES

- A. Port has right to use and occupy Work. The Port reserves the right to occupy or use any part of the Work before or after Substantial Completion of some or all of the Work without relieving the Contractor of any of its obligations under the Contract. Such occupancy or use shall not constitute acceptance by the Port of any of the Work, and shall not cause any insurance to be canceled or lapse.
- B. No compensation due if Port elects to use and occupy Work. No additional compensation shall be due to the Contractor as a result of the Port's use or occupancy of the Work or a designated portion.

### ARTICLE 7 - PAYMENT

#### 7.01 ALL PAYMENTS SUBJECT TO APPLICABLE LAWS AND SCHEDULE OF VALUES

- A. Payment of the Contract Sum. The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Port to the Contractor for performance of the Work under the Contract Documents. Payments made to the Contractor are subject to all laws applicable to the Port and the Contractor. Payment of the Contract Sum constitutes full compensation to the Contractor for performance of the Work, including all risk, loss, damages, or expense of whatever character arising out of the nature or prosecution of the Work. The Port is not obligated to pay for extra work or materials furnished without prior written approval of the Port.
- B. Schedule of Values. All payments will be based upon an approved Schedule of Values. Prior to submitting its first Application for Payment, the Contractor shall submit a Schedule of Values to the Port allocating the entire Contract Sum to the various portions of the Work. The Schedule of Values shall be prepared in such form, and supported by such data to substantiate its accuracy, as the Port may require. This schedule, unless objected to by the Port, shall be used as a basis for reviewing the Contractor's applications for payment.

#### 7.02 APPLICATIONS FOR PAYMENT

- A. Applications for Payment. Progress payments will be made monthly for Work duly certified, approved by the Engineer, and performed (based on the Schedule of Values and actual quantities of Work performed) during the calendar month preceding the Application for Payment. These amounts are paid in trust to the Contractor for distribution to Subcontractors to the extent and in accordance with the approved Application for Payment.

### 7.03 PROGRESS PAYMENTS

- A. Progress payments. Following receipt of a complete Application for Payment, the Engineer will either authorize payment or indicate in writing to the Contractor the specific reasons why the payment request is being denied, in whole or in part, and the remedial action the Contractor must take to receive the withheld amount. After a complete Application for Payment has been received and approved by the Port, payment will be made within thirty (30) days. Any payments made by, or through, or following receipt of payment from third parties will be made in accordance with the third party's policies and procedures.
- B. Port may withhold payment. The Port may withhold payment in whole or in part as provided in the Contract Documents or to the extent reasonably necessary to protect the Port from loss or potential loss for which the Contractor is responsible, including loss resulting from the Contractor's acts and omissions.

### 7.04 PAYMENT BY CONTRACTOR TO SUBCONTRACTORS

- A. Payment to Subcontractors. With each Application for Payment, the Contractor shall provide a list of Subcontractors to be paid by the Contractor. No payment request shall include amounts the Contractor does not intend to pay to a Subcontractor because of a dispute or other reason. If, however, after submitting an Application for Payment but before paying a Subcontractor, the Contractor discovers that part or all of a payment otherwise due to the Subcontractor is subject to withholding from the Subcontractor under the subcontract (such as for unsatisfactory performance or non-payment of lower-tier Subcontractors), the Contractor may withhold the amount as allowed under the subcontract, but it shall give the Subcontractor and the Port written notice of the remedial actions that must be taken and pay the Subcontractor within eight (8) working days after the Subcontractor satisfactorily completes the remedial action identified in the notice.
- B. Payment certification to be provided upon request. The Contractor shall provide with each Application for Payment a certification signed by Contractor attesting that all payments by the Contractor to Subcontractors from the last Application for Payment were made within ten (10) days of the Contractor's receipt of payment. The certification will also attest that the Contractor will make payment to Subcontractors for the current Application for Payment within ten (10) days of receipt of payment from the Port.

### 7.05 FINAL PAYMENT

- A. Final payment. Final applications for payment are due within seven (7) days following Final Completion. Final payment of the unpaid balance of the Contract Sum, except retainage, will be made following Final Completion and within thirty (30) days of the Contractor's submission of an approved final Application for Payment.
- B. Releases required for final payment. The final payment shall not become due until the Contractor delivers to the Port a complete release of all liens arising out of the Contract, as well as an affidavit stating that, to the best of Contractor's knowledge, its release includes all labor and materials for which a lien could be filed. If a Subcontractor of any tier refuses to furnish a release or waiver required by the Port, the Port may (a) retain in the fund, account, or escrow funds in such amount as to defray the cost of foreclosing the liens of such claims and to pay attorneys' fees, the total of which shall be no less than 150% of the claimed amount, or (b) accept a bond from the Contractor, satisfactory to the Port, to indemnify the Port against the lien. If any such lien remains unsatisfied after all payments from the retainage are made, the Contractor shall refund to the Port all moneys that the Port may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees.

- C. Contractor to hold Port harmless from liens. The Contractor shall defend (at the Contractor's sole cost, with legal counsel approved by Port), indemnify, and hold harmless the Port from any liens, claims, demands, lawsuits, losses, damages, disbursements, liabilities, obligations, fines, penalties, costs and expenses, whether direct, indirect, including but not limited to attorneys' fees and consultants' fees and other costs and expenses, except to the extent a lien has been filed because of the failure of the Port to make a contractually required payment.

#### 7.06 RETAINAGE

- A. Retainage to be withheld. In accordance with RCW 60.28, a sum equal to five percent (5%) of each approved Application for Payment shall be retained. Prior to submitting its first Application for Payment, the Contractor shall exercise one of the options listed below:
1. Retained percentages will be retained by the Port in a fund; or
  2. Deposited by the Port in an interest-bearing account in a bank, mutual savings bank or savings and loan association; or
  3. Placed in escrow with a bank or trust company; or
  4. If the Contractor provides a bond in place of retainage, it shall be in an amount equal to 5% of the Contract Sum plus Change Orders. The retainage bond shall be based on the form furnished in Section 00 61 23 or otherwise acceptable to the Port and duly completed and signed by a licensed surety or sureties registered with the Washington State Insurance Commissioner and on the currently authorized insurance list published by the Washington State Insurance Commissioner. The surety or sureties must be rated at least A minus, FSC(6), or higher by A.M. Best Rating Guide and be authorized by the Federal Department of the Treasury. Attorneys-in-fact who sign the retainage bond must file with each bond a certified and effective Power of Attorney statement.
- B. Contractor may withhold retainage from Subcontractors. The Contractor or a Subcontractor may withhold not more than five percent (5%) retainage from the monies earned by any Subcontractor or lower-tier Subcontractor, provided that the Contractor pays interest to the Subcontractor at the same interest rate it receives from its reserved funds. If requested by the Port, the Contractor shall specify the amount of retainage and interest due a Subcontractor.
- C. Release of retainage. Retainage will be withheld and applied by the Port in a manner required by RCW 60.28 and released in accordance with the Contract Documents and statutory requirements. Release of the retainage will be processed in the ordinary course of business within sixty (60) days following Final Acceptance of the Work by the Port provided that no notice of lien has been given as provided in RCW 60.28, that no claims have been brought to the attention of the Port, that the Port has no claims under this Contract, and that release of retention has been duly authorized by the State. The following items must also be obtained prior to release of retainage: pursuant to RCW 60.28, a certificate from the Department of Revenue; pursuant to RCW 50.24, a certificate from the Department of Employment Security; and appropriate information from the Department of Labor and Industries including approved affidavits of wages paid for the Contractor and each subcontractor.

#### 7.07 DISPUTED AMOUNTS

- A. Disputed amounts. If the Contractor believes it is entitled to payment for Work performed during the prior calendar month in addition to the agreed-upon amount, the Contractor may submit to the Port along with the approved Application for Payment, a separate written payment request specifying the exact additional amount claimed to be due, the category in the Schedule of Values to which the payment would apply, the specific Work for which additional payment is sought, and an explanation of why the Contractor believes additional payment is due.

## 7.08 EFFECT OF PAYMENT

- A. Payment does not relieve Contractor of obligations. Payment to the Contractor of progress payments or final payment does not relieve the Contractor from its responsibility for the Work or its responsibility to repair, replace, or otherwise make good defective Work, materials or equipment. Likewise, the making of a payment does not constitute a waiver of the Port's right to reject defective or non-conforming Work, materials, or equipment (even though they are covered by the payment), nor is it a waiver of any other rights of the Port.
- B. Acceptance of final payment waives claims. Acceptance of final payment by the Contractor, a Subcontractor of any tier or a supplier shall constitute a waiver of claims except those previously made in writing and identified as unsettled in Contractor's final Application for Payment.
- C. Execution of Change Order waives claims. The execution of a Change Order shall constitute a waiver of claims by the Contractor arising out of the Work to be performed or deleted pursuant to the Change Order, except as specifically described in the Change Order.

## 7.09 LIENS

- A. Contractor to discharge liens. The Contractor shall promptly pay (and secure the discharge of any liens asserted by) all persons properly furnishing labor, equipment, materials or other items in connection with the performance of the Work (including, but not limited to, any Subcontractors of any tier).

## ARTICLE 8 - CHANGES IN THE WORK

### 8.01 CHANGES IN THE WORK

- A. Changes in the Work authorized. Without invalidating the Contract and without notice to the Contractor's surety, the Port may authorize changes in the Work after execution of the Contract, including changes in the Contract Sum or Contract Time. Changes shall occur solely by Change Order, Unilateral Change Directive, or Minor Change in Work. All changes in the Work are effective immediately and the Contractor shall proceed promptly to perform the change, unless otherwise provided in the Change Order or Directive.
- B. Changes in the Work Defined.
  - 1. A Change Order is a written instrument signed by the Port and Contractor stating their agreement to a change in the Work and the adjustment, if any, in the Contract Sum and/or Contract Time.
  - 2. A Unilateral Change Directive is a written instrument issued by the Port to transmit new or revised Drawings, issue additions or modifications to the Contract, furnish other direction and documents adjustment, if any, to the Contract Sum and/or Contract Time. A Unilateral Change Directive is signed only by the Port, without requiring the consent or signature of the Contractor.
  - 3. A Minor Change in the Work is a written order from the Port directing a change that does not involve an adjustment to the Contract Sum or the Contract Time.
- C. Request for Proposal: At any time, the Port may issue a Proposal Request directing the Contractor to propose a change to the Contract Sum and/or Contract Time, if any, based on a proposed change in the Work. The Contractor shall submit a responsive Change Order proposal as soon as possible and no later than fourteen (14) days after receipt in which the Contractor specifies in good faith the extent to which the Contract Sum and/or Contract Time would change. All cost components shall be limited to the manner described in Section 8.02(B).

If the Contractor fails to timely respond to a Proposal Request, the Port may issue the change as a Unilateral Change Directive.

1. Fixed price method is default for Contractor Change Order proposal. When the Port has requested that the Contractor submit a Change Order proposal, the Port may specify the basis on which the Contract Sum will be adjusted by the Contractor. The Engineer's preference, unless otherwise indicated, is for changes in the Work to be priced using Lump Sums or Unit Prices or on a time and material (Force Account) basis if unit pricing or lump sums cannot be negotiated or determined. In all instances, however, proposed changes shall include a not-to-exceed price for the change and shall be itemized for evaluation purposes in accordance with Section 8.02(B), as requested by the Engineer.
  2. The Port may accept or reject the Contractor's Change Order proposal, request further documentation, or negotiate acceptable terms with the Contractor. If The Port and Contractor reach agreement on the terms of any change in the Work, including any adjustment in the Contract Sum or Contract Time, such agreement shall be incorporated in a Change Order.
  3. The Change Order shall constitute full payment and final settlement of all claims for time and for direct, indirect, and consequential costs, including costs of delays, inconvenience, disruption of schedule, or loss of efficiency or productivity, related to any Work either covered or affected by the Change Order, or related to the events giving rise to the request for equitable adjustment. The Port may reject a proposal, in which case the Port may either not effectuate the change or issue a Unilateral Change Directive. The Port will not make payment to the Contractor for any work until that work has been incorporated into an executed Change Order.
- D. Unforeseen Conditions: If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or any soils reports made available by the Port to the Contractor or (2) unknown physical conditions of an unusual nature that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall immediately provide oral notice to the Engineer before conditions are disturbed, followed within 24 hours by an initial written notice. The Contractor shall submit a detailed proposal no later than seven (7) days following discovery of differing site conditions. The Engineer will promptly investigate these conditions and, if the Engineer determines that they differ materially and cause an increase or decrease in the Contractor's cost or time required for, performance of any part of the Work, will establish a change in the Contract Sum or Contract Time, or both, consistent with the requirements of the Contract Documents. If the Contractor disputes the Engineer's determination, the Contractor may proceed as provided in the dispute resolution procedure (Article 11). No increase to the Contract Sum or the Contract Time shall be allowed if the Contractor does not comply with the contractual requirements or if the Contractor knew or reasonably should have known of the concealed conditions prior to executing the Contract.
- E. Proceed Immediately: Pending agreement on the terms of the Change Order or upon determination of a differing site condition as defined in 8.01(D), the Engineer may direct Contractor to proceed immediately with the change in the Work. Contractor shall not proceed with any change in the Work until it has obtained the Engineer's written approval and documentation of the following:
1. The scope of work
  2. An agreed upon maximum not-to-exceed amount

3. The method of final cost determination
  4. Estimated time to complete the changed work.
  5. As a change in the Work is performed, unless the parties have signed a written Change Order to establish the cost of the change, the Contractor shall maintain an itemized accounting of all costs related to the change based on the categories in Section 8.02(B) and provide such data to the Port upon request. This includes, without limitation, invoices, including freight and express bills, and other support for all material, equipment, Subcontractor, and other charges related to the change and, for material furnished from the Contractor's own inventory, a sworn affidavit certifying the actual cost of such material. Failure to provide data to the Port within seven (7) days of a request constitutes a waiver of any claim. The Port may furnish any material or equipment to the Contractor that it deems advisable, and the Contractor shall have no claim for any costs or fee on such material or equipment.
- F. Procedure for Unilateral Change Directive. Whether or not the Port has rejected a Contractor's proposal, the Port may issue a Unilateral Change Directive and the Contractor shall promptly proceed with the specified Work. If the Contractor disagrees with a Unilateral Change Directive, the Contractor shall advise the Port in writing through a Change Order proposal within seven (7) days of receipt. The Contractor's Change Order proposal shall reasonably specify the reasons for any disagreement and the adjustment it proposes. Without this timely Change Order proposal, the Contractor shall conclusively be deemed to have accepted the Port's proposal.
- G. Payment pending final determination of Force Account work. Pending final determination of the total cost of Force Account Work, and provided that the Work to be performed under Force Account is complete and any reservations of rights have been signed by the Port, the Contractor may request payment for amounts not in dispute in the next Application for Payment accompanied by documentation indicating the parties' agreement. Work done on a Force Account basis must be approved in writing on a daily basis by the Engineer or the Engineer's designee and invoices shall be submitted with an Application for Payment within sixty (60) days of performance of the Work.

## 8.02 CHANGES IN THE CONTRACT SUM

- A. Port to Decide How Changes are Measured. The Port may elect, in its sole discretion, how changes in the Work will be measured for payment. Change in the Work may be priced on a lump sum basis, through Unit Prices, as Force Account, or by another method documented in the executed Change Order, Unilateral Change Directive or Minor Change in the Work.
- B. Determination of Cost of Change. The total cost of any change in the Work, including a claim under Article 11, shall not exceed the prevailing cost for the Work in the locality of the Project. In all circumstances, the change in the Work shall be limited to the reasonable, actual cost of the following components:
1. Direct labor costs: These are the actual labor costs determined by the number of additional craft hours at their normal hourly rate necessary to perform a change in the Work. The hourly cost of labor will be based upon the following:
    - a. Basic wages and fringe benefits: The hourly wage (without markup or labor burden) and fringe benefits paid by the Contractor as established by the Washington Department of Labor and Industries or contributed to labor trust funds as itemized fringe benefits, whichever is applicable, not to exceed that specified in the applicable "Intent to Pay Prevailing Wage," for the laborers, apprentices, journeymen, and foremen performing or directly supervising the change in the Work on site. These wages do not include the cost of Contractor's project manager or superintendent or



above, and the premium portion of overtime wages is not included unless pre-approved in writing by the Port. Costs paid or incurred by the Contractor for vacations, per diem, subsistence, housing, travel, bonuses, stock options, or discretionary payments to employees are not separately reimbursable. The Contractor shall provide to the Port copies of payroll records, including certified payroll statements for itself and Subcontractors of any tier, upon the Port's request.

- b. Workers' insurance: Direct contributions to the State of Washington as industrial insurance; medical aid; and supplemental pension by class and rates established by the Washington Department of Labor and Industries.
  - c. Federal insurance: Direct contributions required by the Federal Insurance Compensation Act (FICA); Federal Unemployment Tax Act (FUTA); and State Unemployment Compensation Act (SUCA).
- 2. Direct material costs: This is an itemization, including material invoices, of the quantity and actual cost of additional materials necessary to perform the change in the Work. The cost will be the net cost after all discounts or rebates, freight costs, express charges, or special delivery costs, when applicable. No lump sum costs will be allowed unless approved in advance by the Port.
  - 3. Construction equipment usage costs: This is an itemization of the actual length of time that construction equipment necessary and appropriate for the Work is used solely on the changed Work times the applicable rental cost as established by the lower of the local prevailing rates published in [www.equipmentwatch.com](http://www.equipmentwatch.com), as modified by the AGC/WSDOT agreement, or the actual rate paid to an unrelated third party. If more than one rate is applicable, the lowest available rate will be utilized. Rates and quantities of equipment rented that exceed the local fair market rental costs shall be subject to the Port's prior written approval. Total rental charges for equipment or tools shall not exceed 75% of the fair market purchase value of the equipment or the tool. Actual, reasonable mobilization costs are permitted if the equipment is brought to the site solely for the change in the Work. Mobilization and standby costs shall not be charged for equipment already present on the site.

The rates in effect at the time of the performance of the changed Work are the maximum rates allowable for equipment of modern design and in good working condition and include full compensation for furnishing all fuel, oil, lubrication, repairs, maintenance, and insurance. No gas surcharges are payable. Equipment not of modern design and/or not in good working condition will have lower rates. Hourly, weekly, and/or monthly rates, as appropriate, will be applied to yield the lowest total cost.
  - 4. Subcontractor costs: These are payments the Contractor makes to Subcontractors for changed Work performed by Subcontractors. The Subcontractors' cost of changed Work shall be determined in the same manner as prescribed in this Section 8.02 and, among other things, shall not include consultant costs, attorneys' fees, or claim preparation expenses.
  - 5. Service provider costs: These are payments the Contractor makes to service providers for changed Work performed by service providers. The service providers' cost of changed Work shall be determined in the same manner as prescribed in this Section 8.02.
  - 6. Markup: This is the maximum total amount for overhead, profit and other costs, including office, home office and site overhead (including purchasing, project manager, superintendent, project engineer, estimator, and their vehicles and clerical assistants), taxes (except for sales tax on the Contract Sum), warranty, safety costs, printing and

copying, layout and control, quality control/assurance, small or hand tools (a tool that costs \$500 or less and is normally furnished by the performing contractor), preparation of as-built drawings, impact on unchanged Work, Change Order and/or claim preparation, and delay and impact costs of any kind (cumulative, ripple, or otherwise), added to the total cost to the Port of any Change Order work. No markup shall be due, however, for direct settlements of Subcontractor claims by the Port after Substantial Completion. The markup shall be limited in all cases to the following schedule:

- a. Direct labor costs -- 20% markup on the direct cost of labor for the party (Contractor or Subcontractor) providing labor related to the change in the Work;
- b. Direct material costs -- 20% markup on the direct cost of material for the party (Contractor or Subcontractor) providing material related to the change in the Work;
- c. Construction equipment usage costs -- 10% markup on the direct cost of equipment for the party (Contractor or Subcontractor) providing equipment related to the change in the Work;
- d. Contractor markup on Subcontractor costs -- 10% markup for the Contractor on the direct cost (excluding markup) of a change in the Work performed by Subcontractors (and for Subcontractors, for a change in the Work performed by lower-tier Subcontractors); and
- e. Service provider costs -- 5% markup for the Contractor on the direct cost (excluding markup) of a change in the Work performed by service providers.

The total summed markup of the Contractor and all Subcontractors of any tier shall not exceed 30% of the direct costs of the change in the Work. If the markup would otherwise exceed 30%, the Contractor shall proportionately reduce the markup for the Contractor and all Subcontractors of any tier.

7. Cost of change in insurance or bond premium. This is defined as:

- a. Contractor's liability insurance: The actual cost (expressed as a percentage submitted with the certificate of insurance provided under the Contract Documents and subject to audit) of the Contractor's liability insurance arising directly from the changed Work; and
- b. Public works bond: The actual cost (expressed as a percentage submitted under the Contract Documents and subject to audit) of the Contractor's performance and payment bond arising directly from the changed Work.

Upon request, the Contractor shall provide the Port with supporting documentation from its insurer or surety of any associated cost incurred. The cost of the insurance or bond premium together shall not exceed 2.0% of the cost of the changed Work.

8. Unit Prices. If Unit Prices are specified in the Contract Documents or established by agreement of the parties for certain Work, the Port may apply them to the changed Work. Unit Prices shall include pre-agreed rates for material quantities and shall include reimbursement for all direct and indirect costs of the Work, including overhead, profit, bond, and insurance costs arising out of or related to the Unit Priced item. Quantities must be supported by field measurement statements signed by the Port, and the Port shall have access as necessary for quantity measurement. The Port shall not be responsible for not-to-exceed limit(s) without its prior written approval.

### 8.03 CHANGES IN THE CONTRACT TIME

- A. Extension of the Contract Time. If the Contractor is delayed at any time in the commencement or progress of the Work by events for which the Port is responsible, by unanticipated abnormal weather (subject to Section 8.03(E) below), or by other causes not the fault or responsibility of the Contractor that the Port determines may justify a delay in the Contract Time, then the Contract Time shall be extended by Change Order for such reasonable time as the Port may determine. In no event, however, shall the Contractor be entitled to any extension of time absent proof of (1) delay to an activity on the critical path of the Project, or (2) delay transforming an activity to the critical path, so as to actually delay the anticipated date of Substantial Completion.
- B. Allocation of responsibility for delay not caused by Port or Contractor. If a delay was not caused by the Port, the Contractor, or anyone acting on behalf of any of them, the Contractor is entitled only to an increase in the Contract Time but not an increase in the Contract Sum.
- C. Allocation of responsibility for delay caused by Port. If a delay was caused by the Port or someone acting on behalf of the Port and affected the critical path, the Contractor shall be entitled to a change in the Contract Time and Contract Sum in accordance with Section 8.02. The Contractor shall not recover damages, an equitable adjustment or an increase in the Contract Sum or Contract Time from the Port, however, where the Contractor could reasonably have avoided the delay. The Port is not obligated directly or indirectly for damages for any delay suffered by a Subcontractor of any tier that does not increase the Contract Time.
- D. Allocation of responsibility for delay caused by Contractor. If a delay was caused by the Contractor, a Subcontractor of any tier, or anyone acting on behalf of any of them, the Contractor is not entitled to an increase in the Contract Time or in the Contract Sum.
- E. Adverse weather. If adverse weather is identified as the basis for a claim for additional time, the claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not reasonably have been anticipated and had an adverse effect on the critical path of construction, and that the Work was on schedule (or not behind schedule through the fault of the Contractor) at the time the adverse weather conditions occurred. Neither the Contract Time nor the Contract Sum will be adjusted for normal inclement weather. For a claim based on adverse weather, the Contractor shall be eligible only for a change in the Contract Time (but not a change in the Contract Sum) if the Contractor can substantiate that there was significantly greater than normal inclement weather considering the full term of the Contract Time.
- F. Damages for delay. In the event the Contractor (including any Subcontractors of any tier) is held to be entitled to damages from the Port for delay beyond the amount permitted in Section 8.02(B), the total combined damages to the Contractor and any Subcontractors of any tier for each day of delay shall be limited to the same daily liquidated damage rate specified in the Contract Documents due the Port for the Contractor's delay in achieving Substantial Completion. By submitting a bid on the Work and executing the Contract, the Contractor represents that these liquidated damages are a reasonable estimate of its loss.
- G. Limitation on damages. The Contractor shall not be entitled to damages arising out of loss of efficiency; morale, fatigue, attitude, or labor rhythm; constructive acceleration; home office overhead; expectant under run; trade stacking; reassignment of workers; rescheduling of Work, concurrent operations; dilution of supervision; learning curve; beneficial or joint occupancy; logistics; ripple; season change; extended or increased overhead or general conditions; profit upon damages for delay; impact damages including cumulative impacts; or similar damages. Any effect that such alleged costs may have upon the Contractor or its Subcontractors of any

tier is fully compensated through the markup on Change Orders paid through Section 8.02(B) and any liquidated damages paid hereunder.

#### 8.04 RESERVATION OF RIGHTS

- A. Reservations of rights void unless signed by Port. Reservations of rights will be deemed waived and are void unless any reserved rights are described in detail and are signed by the Contractor and the Port.
- B. Procedure for unsigned reservations of rights. If the Contractor adds a reservation of rights not signed by the Port to any Change Order, Unilateral Change Directive, Change Order proposal, Application for Payment or any other document, all amounts and all Work therein shall be considered disputed and not payable until costs are re-negotiated or the reservation is withdrawn or changed in a manner satisfactory to and signed by the Port. If the Port makes payment based on a document that contains a reservation of rights not signed by the Port, and if the Contractor cashes such payment, then the reservation of rights shall be deemed waived, withdrawn and of no effect.

#### 8.05 UNIT PRICES

- A. Adjustment to Unit Prices. If Unit Prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed (less than eighty percent (80%) or more than one hundred and twenty percent (120%) of the quantity estimated) so that application of a Unit Price would be substantially unfair, the applicable Unit Price but not the Contract Time shall be adjusted if the Port prospectively approves a Change Order revising the Unit Price.
- B. Procedure to change Unit Prices. The Contractor or Port may request a Change Order revising a Unit Price by submitting information to support the change. A proposed change to a Unit Price will be evaluated by the Port based on the change in cost resulting solely from the change in quantity, any change in production rate or method as compared to the original plan, and the share, if any, of fixed expenses properly chargeable to the item. If the Port and Contractor agree on the change, a Change Order will be executed. If the parties cannot agree, the Contractor shall comply with the dispute resolution procedures (Article 11).

### **ARTICLE 9 - SUSPENSION AND TERMINATION OF CONTRACT**

#### 9.01 PORT'S RIGHT TO SUSPEND WORK

- A. Port may suspend the Work. The Port may at any time suspend the Work, or any part thereof, by giving notice to the Contractor. The Work shall be resumed by the Contractor as soon as possible, but no later than fourteen (14) days after the date fixed in a notice to resume the Work. The Port shall reimburse the Contractor for appropriate and reasonable expenses consistent with Section 8.02 incurred by the Contractor as a result of the suspension, except where a suspension is the result of the Contractor repeatedly or materially failing to carry out or correct the Work in accordance with the Contract Documents, and the Contractor shall take all necessary steps to minimize expenses.
- B. Contractor obligations. During any suspension of Work, the Contractor shall take every precaution to prevent damage to, or deterioration of, the Work. The Contractor shall be responsible for all damage or deterioration to the Work during the period of suspension and shall, at its sole expense, correct or restore the Work to a condition acceptable to the Port prior to resuming Work.

## 9.02 TERMINATION OF CONTRACT FOR CAUSE BY THE PORT

- A. Port may terminate for cause. If the Contractor is adjudged bankrupt or makes a general assignment for the benefit of the Contractor's creditors, if a receiver is appointed due to the Contractor's insolvency, or if the Contractor, in the opinion of the Port, persistently or materially refuses or fails to supply enough properly skilled workmen or materials for proper completion of the Contract, fails to make prompt payment to Subcontractors or suppliers for material or labor, disregards laws, ordinances, or the instructions of the Port, fails to prosecute the Work continuously with promptness and diligence, or otherwise materially violates any provision of the Contract, then the Port, without prejudice to any other right or remedy, may terminate the Contractor after giving the Contractor seven (7) days' written notice (during which period the Contractor shall have the right to cure).
- B. Procedure following termination for cause. Following a termination for cause, the Port may take possession of the Project site and all materials and equipment, and utilize such materials and equipment to finish the Work. The Port may also exclude the Contractor from the Project site(s). If the Port elects to complete all or a portion of the Work, it may do so as it sees fit. The Port shall not be required to accept the lowest bid for completion of the Work and may choose to complete all or a portion of the Work using its own work force. If the Port elects to complete all or a portion of the Work, the Contractor shall not be entitled to any further payment until the Work is finished. If the expense of finishing the Work, including compensation for additional managerial and administrative services of the Port, exceeds the unpaid balance of the Contract Sum, the excess shall be paid by the Contractor.
- C. Port's remedies following termination for cause. The Port may exercise any rights, claims or demands that the Contractor may have against third persons in connection with the Contract, and for this purpose the Contractor assigns and transfers to the Port all such rights, claims and demands.
- D. Inadequate termination for cause converted to termination for convenience. If, after the Contractor has been terminated for cause, it is determined that inadequate "cause" for such termination exists, then the termination shall be considered a termination for convenience pursuant to Section 9.03.

## 9.03 TERMINATION OF CONTRACT FOR CONVENIENCE BY THE PORT

- A. Port may terminate for convenience. The Port may, at any time (without prejudice to any right or remedy of the Port), terminate all or any portion of the Contract for the Port's convenience and without cause. The Contractor shall be entitled to receive payment consistent with the Contract Documents only for Work properly executed through the date of termination, and costs necessarily incurred by reason of the termination (such as the cost of settling and paying claims arising out of the termination under subcontracts or orders), along with a fee of one percent (1%) of the Contract Sum not yet earned on the whole or part of the Work. The total amount to be paid to the Contractor shall not exceed the Contract Sum as reduced by the amount of payments otherwise made. The Port shall have title to all Work performed through the date of termination.

## 9.04 TERMINATION OF CONTRACT BY THE CONTRACTOR

- A. Contractor may terminate for cause. The Contractor may terminate the Contract if the Work is stopped for a period of sixty (60) consecutive days through no act or fault of the Contractor or a Subcontractor of any tier, for either of the following reasons:
  - 1. Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped; or

2. An act of government, such as a declaration of national emergency that requires all Work to be stopped.
- B. Procedure for Contractor termination. If one of the reasons described in Section 9.04A exists, the Contractor may, upon seven (7) days' written notice to the Port (during which period the Port has the opportunity to cure), terminate the Contract and recover from the Port payment for Work executed through the date of termination in accordance with the Contract Documents and for proven loss with respect to materials, equipment, tools, and construction equipment and machinery, including reasonable overhead and profit on Work executed and direct costs incurred by reason of such termination. The total recovery of the Contractor shall not exceed the unpaid balance of the Contract Sum.
- C. Contractor may stop the Work for failure of Port to pay undisputed amounts. The Contractor may stop Work under the Contract if the Port does not pay undisputed amounts due and owing to the Contractor within fifteen (15) days of the date established in the Contract Documents. If the Port fails to pay undisputed amounts, the Contractor may, upon fifteen (15) additional days' written notice to the Port, during which the Port can cure, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately, and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shut-down, delay and start-up.

#### 9.05 SUBCONTRACT ASSIGNMENT UPON TERMINATION

- A. Subcontracts assigned upon termination. Each subcontract is hereby assigned by the Contractor to the Port provided that:
  1. The Port requests that the subcontract be assigned;
  2. The assignment is effective only after termination by the Port and only for those subcontracts that the Port accepts in writing; and
    - a. The assignment is subject to the prior rights of the surety, if any, under any bond issued in accordance with the Contract Documents.

When the Port accepts the assignment of a subcontract, the Port assumes the Contractor's rights and obligations under the subcontract, but only for events and payment obligations that arise after the date of the assignment.

### ARTICLE 10 - BONDS

#### 10.01 CONTRACTOR PERFORMANCE AND PAYMENT BONDS

- A. Contractor to furnish performance and payment bonds. Within ten (10) days following its receipt of a notice of award, and as part of the Contract Sum, the Contractor shall secure and furnish duly executed performance and payment bonds using the forms furnished by the Port. The bonds shall be executed by a surety (or sureties) reasonably acceptable to the Port, admitted and licensed in the State of Washington, registered with the Washington State Insurance Commissioner, and possessing an A.M. Best rating of "A minus, FSC (6)" or better and be authorized by the U.S. Department of the Treasury. Pursuant to RCW 39.08, the bonds shall be in an amount equal to the Contract Sum, and shall be conditioned only upon the faithful performance of the Contract by the Contractor within the Contract Time and upon the payment by the Contractor of all taxes, fees, and penalties to the State of Washington and all laborers, Subcontractors, and suppliers, and others who supply provisions, equipment, or supplies for the performance of the Work covered by this Contract. The bonds shall be signed by the person or persons legally authorized to bind the Contractor.

- B. Port may notify surety. If the Port makes or receives a claim against the Contractor, the Port may, but is not obligated to, notify the Contractor's surety of the nature and amount of the claim. If the claim relates to a possibility of a Contractor's default, the Port may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

## **ARTICLE 11 - DISPUTE RESOLUTION**

### **11.01 NOTICE OF PROTEST AND CLAIM**

- A. Dispute resolution procedure mandatory. All claims, direct or indirect, arising out of, or relating to, the Contract Documents or the breach thereof, shall be decided exclusively by the following alternative dispute resolution procedure unless the parties mutually agree otherwise. If the Port and Contractor agree to a partnering process to assist in the resolution of disputes, the partnering process shall occur prior to, and not be in place of, the mandatory dispute resolution procedures set forth below.
- B. Notice of protest defined. Except for claims requiring notice before proceeding with the affected Work as otherwise described in the Contract Documents, the Contractor shall provide immediate oral notice of protest to the Engineer prior to performing any disputed Work and shall submit a written notice of protest to the Port within seven (7) days of the occurrence of the event giving rise to the protest that includes a clear description of the event(s). The protest shall identify any point of disagreement, those portions of the Contract Documents believed to be applicable, and an estimate of quantities and costs involved. When a protest relates to cost, the Contractor shall keep full and complete records and shall permit the Port to have access to those records at any time as requested by the Port.
- C. Claim defined. A claim is a demand by one of the parties seeking adjustment or interpretation of the Contract terms, payment of money, extension of time or other relief with respect to the terms of the Contract Documents. The term "claim" also includes all disputes and matters in question between the Port and Contractor arising out of or relating to the Contract Documents. Claims must be initiated in writing and include a detailed factual statement and clear description of the claim providing all necessary dates, locations and items of Work, the date or dates on which the events occurred that give rise to the claim, the names of employees or representatives knowledgeable about the claim, the specific provisions of the Contract Documents that support the claim, any documents or oral communications that support the claim, any proposed change in the Contract Sum (showing all components and calculations) and/or Contract Time (showing cause and analysis of the resultant delay in the critical path), and all other data supporting the claim. Claims shall also be submitted with a statement certifying, under penalty of perjury, that the claim as submitted is made in good faith, that the supporting cost and pricing data are true and accurate to the best of Contractor's knowledge and belief, that the claim is fully supported, and that the amount requested accurately reflects the adjustment in the Contract Sum or Contract Time for which Contractor believes the Port is liable. A claim shall be deemed to include all changes, direct and indirect, in cost and in time to which the Contractor and Subcontractors of any tier are entitled and may not contain reservations of rights without the Port's written approval; any unapproved reservations of rights shall be without effect.
- D. Claim procedure. The Contractor shall submit a written claim within thirty (30) days of providing written notice of protest. The Contractor may delay submitting supporting data by an additional thirty (30) days if it notifies the Port in its claim that substantial data must be assembled. Any claim of a Subcontractor of any tier may be brought only through, and after review by and concurrence of, the Contractor.
- E. Failure to comply with notice of protest and claim requirements waives claims. Any notice of protest by the Contractor and any claim of the Contractor, whether under the Contract or

otherwise, must be made pursuant to and in strict accordance with the applicable provisions of the Contract. Failure to properly and timely submit a notice of protest or to timely submit a claim shall waive the claim. No act, omission, or knowledge, actual or constructive, of the Port shall waive the requirement for timely written notice of protest and a timely written claim unless the Port and the Contractor sign an explicit, unequivocal written waiver approved by the Port. The Contractor expressly acknowledges and agrees that the Contractor's failure to timely submit required notices of protest and/or timely submit claims has a substantial impact upon and prejudices the Port. For the purpose of calculating time periods, an "event giving rise to a claim," among other things, is not a Request for Information but rather is a response that the Contractor believes would change the Contract Sum and/or Contract Time.

- F. False claims. The Contractor shall not make any fraudulent misrepresentations, concealments, errors, omissions, or inducements to the Port in the formation or performance of the Contract. If the Contractor or a Subcontractor of any tier submits a false or frivolous claim to the Port, which for purposes of this Section 11.01(F) is defined as a claim based in whole or in part on a materially incorrect fact, statement, representation, assertion, or record, the Port shall be entitled to collect from the Contractor by offset or otherwise (without prejudice to any right or remedy of the Port) any and all costs and expenses, including investigation and consultant costs, incurred by the Port in investigating, responding to, and defending against the false or frivolous claim.
- G. Compliance with lien and retainage statutes required. If a claim relates to or is the subject of a lien or retainage claim, the party asserting the claim may proceed in accordance with applicable law to comply with the notice and filing deadlines prior to resolution of the claim by mediation or by litigation.
- H. Performance required pending claim resolution. Pending final resolution of a claim, the Contractor shall continue to perform the Contract and maintain the Progress Schedule, and the Port shall continue to make payments of undisputed amounts due in accordance with the Contract Documents.

#### 11.02 MEDIATION

- A. Claims must be subject to mediation. At any time following the Port's receipt of a written claim, the Port may require that an officer of the Contractor and the Port's designee (all with authority to settle) meet, confer, and attempt to resolve a claim. If the claim is not resolved during this meeting, the claim shall be subject to mandatory mediation as a condition precedent to the initiation of litigation. This requirement can be waived only by an explicit, written waiver signed by the Port and the Contractor.
- B. Mediation procedure. A request for mediation shall be filed in writing with the other party to the Contract, and the parties shall promptly attempt to agree upon a mediator. If the parties have not reached agreement within thirty (30) days of the request, either party may file the request with the American Arbitration Association or such other alternative dispute resolution service to which the parties mutually agree, with a copy to the other party, and the mediation shall be administered by the American Arbitration Association (or other agreed service). The parties to the mediation shall share the mediator's fee and any filing fees equally. The mediation shall be held in Pierce County, Washington unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof. Unless the Port and the Contractor mutually agree in writing otherwise, all claims shall be considered at a mediation session that shall occur prior to Final Completion.



### 11.03 LITIGATION

- A. Claims not resolved by mediation are subject to litigation. Claims not resolved through mediation shall be resolved by litigation unless the parties mutually agree otherwise. The venue for any litigation shall be Pierce County, Washington. The Contractor may bring no litigation on claims unless such claims have been properly raised and considered in the procedures of this Article 11. The Contractor must demonstrate in any litigation that it complied with all requirements of this Article.
- B. Litigation must be commenced promptly. All unresolved claims of the Contractor shall be waived and released unless the Contractor has complied with the requirements of the Contract Documents, and litigation is served and filed within 180 days of the date of Substantial Completion approved in writing by the Port or termination of the Contract. The pendency of mediation (the time period between receipt by the non-requesting party of a written mediation request and the date of mediation) shall toll these deadlines until the earlier of the mediator providing written notice to the parties of impasse or thirty (30) days after the date of the mediation session.
- C. Port not responsible for attorneys' fees. Neither the Contractor nor a Subcontractor of any tier, whether claiming under a bond or lien statute or otherwise, shall be entitled to attorneys' fees directly or indirectly from the Port (but may recover attorneys' fees from the bond or statutory retainage fund itself to the extent allowable under law).
- D. Port may join Contractor in dispute. The Port may join the Contractor as a party to any litigation or arbitration involving the alleged fault, responsibility, or breach of contract of the Contractor or Subcontractor of any tier.

## ARTICLE 12 - MISCELLANEOUS

### 12.01 GENERAL

- A. Rights and remedies are cumulative. The rights and remedies of the Port set forth in the Contract Documents are cumulative and in addition to and not in limitation of any rights and remedies otherwise available to the Port. The pursuit of any remedy by the Port shall not be construed to bar the Port from the pursuit of any other remedy in the event of similar, different, or subsequent breaches of this Contract. All such rights of the Port shall survive completion of the Project or termination of the Contractor.
- B. Reserved rights do not give rise to duty. The rights reserved or possessed by the Port to take any action shall not give rise to a duty for the Port to exercise any such right.

### 12.02 WAIVER

- A. Waiver must be in writing and authorized by Port. Waiver of any provisions of the Contract Documents must be in writing and authorized by the Port. No other waiver is valid on behalf of the Port.
- B. Inaction or delay not a waiver. No action, delay in acting, or failure to act by the Port shall constitute a waiver of any right or remedy of the Port, or constitute an approval or acquiescence of any breach or defect in the Work. Nor shall any delay or failure of the Port to act waive or otherwise prejudice the right of the Port to enforce a right or remedy at any subsequent time.
- C. Claim negotiation not a waiver. The fact that the Port and the Contractor may consider, discuss, or negotiate a claim that has or may have been defective or untimely under the Contract shall not constitute a waiver of the provisions of the Contract Documents unless the Port and the Contractor sign an explicit, unequivocal waiver.

12.03 GOVERNING LAW

- A. Washington law governs. This Contract and the rights and duties of the parties hereunder shall be governed by the internal laws of the State of Washington, without regard to its conflict of law principles.

12.04 COMPLIANCE WITH LAW

- A. Contractor to comply with applicable laws. The Contractor shall at all times comply with all applicable Federal, State and local laws, ordinances, and regulations. This compliance shall include, but is not limited to, the payment of all applicable taxes, royalties, license fees, penalties, and duties.
- B. Contractor to provide required notices. The Contractor shall give notices required by all applicable Federal, State, and local laws, ordinances and regulations bearing on the Work.
- C. Contractor to confine operations at site to permitted areas. The Contractor shall confine operations at the Project site to areas permitted by applicable laws, ordinances, permits, rules and regulations, and lawful orders of public authorities and the Contract Documents.

12.05 ASSIGNMENT

- A. Assignment. The Port and Contractor respectively bind themselves, their partners, successors, assigns and legal representatives to the other party and to the partners, successors, assigns and legal representatives of such other party. The Contractor may not assign, transfer, or novate all or any portion of the Contract, including but not limited to any claim or right to the Contract Sum, without the Port's prior written consent. If the Contractor attempts to make an assignment, transfer, or novation without the Port's consent, the assignment shall be of no effect, and Contractor shall nevertheless remain legally responsible for all obligations under the Contract. The Contractor also shall not assign or transfer to any third party any claims it may have against the Port arising under the Contract or otherwise related to the Project.

12.06 TIME LIMIT ON CAUSES OF ACTION

- A. Time limit on causes of action. The Port and Contractor shall commence all causes of action, whether in contract, tort, breach of warranty or otherwise, against the other arising out of or related to the Contract in accordance with the requirements of the dispute resolution procedure set forth in Article 11 of these General Conditions, within the time period specified by applicable law, and within the time limits identified in the Contract Documents. The Contractor waives all claims and causes of action not commenced in accordance with this Section 12.06.

12.07 SERVICE OF NOTICE

- A. Notice. Written notice under the Contract Documents by either the Contractor or Port may be served on the other party by personal service, electronic or facsimile transmission, or delivery service to the last address provided in writing to the other party. For the purpose of measuring time, notice shall be deemed to be received by the other party on the next business day following the sender's electronic or facsimile transmittal or delivery by delivery service.

12.08 RECORDS

- A. Contractor and Subcontractors to maintain records and cooperate with Port audit. The Contractor and Subcontractors of any tier shall maintain books, ledgers, records, documents, estimates, bids, correspondence, logs, schedules, emails, and other tangible and electronic data and evidence relating or pertaining to costs and/or performance of the Contract ("records") to such extent and in such detail as will properly reflect and fully support compliance with the Contract Documents and with all costs, charges and other amounts of whatever nature. The Contractor shall preserve these records for a period of six (6) years following the date of Final

Acceptance under the Contract. Within seven (7) days of the Port's request, both during the Project and for six (6) years following Final Acceptance, the Contractor and Subcontractors of any tier shall make available at their office during normal business hours all records for inspection, audit and reproduction (including electronic reproduction) by the Port or its representatives; failure to fully comply with this requirement shall constitute a material breach of contract and a waiver of all claims by the Contractor and Subcontractors of any tier.

- B. Rights under RCW 42.56. The Contractor agrees, on behalf of itself and Subcontractors of any tier, that any rights under Chapter 42.56 RCW will commence at Final Acceptance, and that the invocation of such rights at any time by the Contractor or a Subcontractor of any tier, or their respective representatives, shall initiate an equivalent right to disclosures from the Contractor and Subcontractors of any tier for the benefit of the Port.

#### 12.09 STATUTES

- A. Contractor to comply with Washington statutes. The Contractor shall abide by the provisions of all applicable statutes, regulations, and other laws. Although a number of statutes are referenced in the Contract Documents, these references are not meant to be and are not a complete list.
1. Pursuant to RCW 39.06, "Registration, Licensing of Contractors," the Contractor shall be registered and licensed as required by the laws of the State of Washington, including but not limited to RCW 18.27, "Registration of Contractors," and shall satisfy all State of Washington bonding and insurance requirements. The Contractor shall also have a current state unified business identifier number; have industrial insurance coverage for the Contractor's employees working in Washington as required by Title 51 RCW; have an employment security department number as required by Title 50 RCW; have a state excise tax registration number as required in Title 82 RCW, and; not be disqualified from bidding on any public works contract under RCW 39.06.010 (unregistered or unlicensed contractors) or RCW 39.12.065(3) (prevailing wage violations).
  2. The Contractor shall comply with all applicable provisions of RCW 49.28, "Hours of Labor."
  3. The Contractor shall comply with pertinent statutory provisions relating to public works of RCW 49.60, "Discrimination."
  4. The Contractor shall comply with pertinent statutory provisions relating to public works of RCW 70.92, "Provisions in Buildings for Aged and Handicapped Persons," and the Americans with Disabilities Act.
  5. Pursuant to RCW 50.24, "Contributions by Employers," in general and RCW 50.24.130 in particular, the Contractor shall pay contributions for wages for personal services performed under this Contract or arrange for an acceptable bond.
  6. The Contractor shall comply with pertinent provisions of RCW 49.17, "Washington Industrial Safety and Health Act," and Chapter 296-155 WAC, "Safety Standards for Construction Work."
  7. Pursuant to RCW 49.70, "Worker and Community Right to Know Act," and WAC 296-62-054 et seq., the Contractor shall provide to the Port and have copies available at the Project site, a workplace survey or material safety data sheets for all "hazardous" chemicals under the control or use of Contractor or any Subcontractor of any tier.
  8. All products and materials incorporated into the Project as part of the Work shall be certified as "asbestos-free" and "lead-free" by United States standards, and shall also be free of all hazardous materials or substances. At the completion of the Project, the Contractor shall submit certifications of asbestos-free and of lead-free materials certifying

that all materials and products incorporated into the Work meet the requirements of this Section, and shall also certify that materials and products incorporated into the Work are free of hazardous materials and substances.

**END OF SECTION**

## PART 1 - GENERAL

### 1.01 RELATED WORK DESCRIBED ELSEWHERE

- A. The provisions and intent of the Contract, including the General and Supplemental Conditions apply to this work as if specified in this section. Work related to this section is described throughout these Specifications.

### 1.02 SUBMITTAL REQUIREMENTS

- A. Evidence of the required insurance within 10 days of the issued Notice of Award to the Contractor.
- B. Updated evidence of insurance as required until final completion.

### 1.03 CONTRACTOR LIABILITY INSURANCE

- A. The Contractor shall secure and maintain until Final Completion, at its sole cost and expense, the following insurance in carriers reasonably acceptable to The Port of Tacoma, licensed in the State of Washington, registered with the Washington State Insurance Commissioner, and possessing an A.M. Best rating of "A-, FSC (6)" or better.
- B. The Port of Tacoma (Port) and the Northwest Seaport Alliance (NWSA) will be included as an additional insured(s) for both ongoing and completed operations by endorsement to the policy using ISO Form CG 20 10 11 85 or forms CG 20 10 03 97 and CG 20 37 10 01 (or equivalent coverage endorsements). The inclusion of the Port and the NWSA as an additional insured(s) shall not create premium liability for the Port.

Also, by endorsement to the policy, there shall be:

- 1. An express waiver of subrogation in favor of the Port and the NWSA;
  - 2. An endorsement stating that the Contractor's policy is primary and not contributory with any insurance carried by the Port and the NWSA.
- C. If the Contractor, Supplier or Subcontractor's will perform any work requiring the use of a licensed professional per RCW 18 the Contractor shall provide evidence to the Port of professional liability insurance in amounts not less than \$1,000,000.
  - D. This insurance shall cover all of the Contractors' operations of whatever nature connected in any way with the Contract, including any operations performed by the Contractor's Subcontractors of any tier. **It is the obligation of the Contractor to ensure that all Subcontractors (at whatever level) carry a similar program that provides the identified types of coverage, limits of liability, inclusion of the Port and the NWSA as additional insured(s), waiver of subrogation and cross liabilities clause.** The Port reserves the right to reject any insurance policy as to company, form, or substance. Contractor's failure to provide or the Port's acceptance of the Contractor's certificate of insurance does not waive the Contractor's obligation to comply with the insurance requirements of the Contract as specifically described below:
    - 1. Marine General Liability Insurance on an Occurrence Form Basis including but not limited to:
      - a. Bodily Injury Liability;
      - b. Property Damage Liability;
      - c. Contractual Liability;
      - d. Products - Completed Operations Liability;

- e. Personal Injury Liability;
- f. Marine coverages as appropriate for the scope of work;

Alternatively, a Commercial General Liability (CGL) policy is acceptable if all of the above coverages are incorporated in the policy and there are no marine exclusions that will remove coverage for either vessels or work done by or above or around the water.

2. Marine Protection and Indemnity/Vessel Pollution Liability: Contractor shall obtain, at Contractor's expense and keep in effect during the term of the contract, Marine Protection and Indemnity insurance which shall include Collision Liability and Jones Act coverages, including coverage for all masters, crew and passengers. The limit of liability shall not be less than \$5,000,000. If Collision Liability is part of the Hull and Machinery coverage for the vessel, evidence of Hull and Machinery coverage in amounts not less than the actual cash value of the vessel shall also be provided.
  - a. Vessel Pollution Liability: Contractor shall obtain at Contractor's expense and keep in effect during the term of the contract, Vessel Pollution Liability on all vessels used under this contract. Vessel Pollution Liability limits shall be the same as the Protection and Indemnity (P&) limits call for in section 2.
3. Comprehensive Automobile Liability including but not limited to:
  - a. Bodily Injury Liability;
  - b. Property Damage Liability;
  - c. Personal Injury Liability;
  - d. Owned and Non-Owned Automobile Liability; and
  - e. Hired and Borrowed Automobile Liability.
4. Contractor's Pollution Liability (CPL) covering claims for bodily injury, property damage and cleanup costs and environmental damages from pollution conditions arising from the performance of covered operations.
  - a. If the Work involves remediation or abatement of regulated waste to include but not limited to: asbestos containing materials, lead containing products, mercury, PCB, underground storage tanks or other hazardous materials or substances, the CPL policy shall not exclude such coverage or a specific policy covering such exposure shall be required from the Contractor and all Subcontractors performing such Work.
  - b. If the Work involves transporting regulated materials or substances or waste, a separate policy or endorsement to the CPL policy specifically providing coverage for liability and cleanup arising from an upset of collision during transportation of hazardous materials or substances shall be required from the Contractor and all Subcontractors performing such Work.
  - c. It is preferred that CPL insurance shall be on a true occurrence form without a sunset clause. However, if CPL insurance is provided on a Claims Made basis, the policy shall have a retroactive date prior to the start of this project and this insurance shall be kept in force for at least three years after the final completion of this project. Alternatively, the contractor at its option may provide evidence of extended reporting period of not less than three (3) years in its place. The Contractor shall be responsible for providing the Port with certificates of insurance each year evidencing this coverage.
  - d. The Port and the NWSA shall be named as an Additional Insured(s) on the CPL policy.

- E. Except where indicated above, the limits of all insurance required to be provided by the Contractor shall be not less than \$2,000,000 for each occurrence. However, coverage in the amounts of these minimum limits shall not be construed as to relieve the Contractor from liability in excess of such limits. The Additional Insured endorsement shall NOT be limited to the amounts specified by this contract unless expressly waived in writing by the Port.
- F. Contractor shall certify that its operations are covered by the Washington State Worker's Compensation Fund. The Contractor shall provide its Account Number or, if self-insured, its Certificate of Qualification Number. The Contractor shall also provide evidence of Stop-Gap Employers' Liability Insurance.

United States Longshoremen's and Harbor Worker's Act (USL&H) and Jones Act may be required for this project. The contractor shall be solely responsible for determining the applicability of USL&H and Jones Act coverage. The failure of the Contractor to procure either USL&H or Jones Act coverage shall at no time create liability on the part of the Port or NWSA. The Contractor shall bear all responsibility and shall indemnify and hold harmless the Port and the NWSA for any and all liability, cost and/or damages.
- G. The Contractor shall furnish within ten (10) days following issuance of the Notice of Award a certificate of insurance satisfactory to the Port evidencing that insurance in the types and minimum amounts required by the Contract Documents has been secured. The Certificate of Insurance shall be signed by an authorized representative of the insurer together with a copy of the endorsement, which shows that the Port and the NWSA is named as additional insured.
- H. Contractor shall provide at least forty-five (45) days prior written notice to the Port of any termination or material change or ten (10) days notice in the case of non-payment of premium(s).
- I. If the Contractor is required to make corrections to the Work after Final Completion, the Contractor shall obtain at its own expense, prior to the commencement of any corrective work, insurance coverage as required by the Contract Documents, which coverage shall be maintained until the corrections to the Work have been completed and accepted by the Port.

#### 1.04 BUILDER'S RISK INSURANCE

- A. Until Final Completion of the Work, the construction Work is at the risk of the Contractor and no partial payment shall constitute acceptance of the Work or relieve the Contractor of responsibility of completing the Work under the Contract.
- B. Whenever the estimated cost of the Work is less than \$25,000,000, the Port will purchase and maintain, in a company or companies lawfully authorized and admitted to do business in Washington, property insurance written on a builder's risk "all-risk" including Earthquake and Flood with applicable sub-limits, or equivalent policy form to cover the course of construction in the amount of the full insurable value thereof. This property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made or until no person or entity other than the Port has an insurable interest in the property, whichever is later. This insurance shall include interests of the Port, the Contractor, and Subcontractors of any tier on the Project. There may be some differences between this Section and the builder's risk insurance secured by the Port; therefore, the Contractor shall provide an "installation floater" or similar property coverage for materials not yet installed, whether stored on site or off site or in transit, and the Contractor shall obtain property coverage for all Contractor-owned equipment and tools-each loss may be subject to a deductible. Losses up to the deductible amount shall be the responsibility of the Contractor. All tools and equipment not

intended as part of the construction or installation will be the sole responsibility of the Contractor.

**PART 2 - PRODUCTS - NOT USED**

**PART 3 - PRODUCTS - NOT USED**

**END OF SECTION**



## **PART 1 - GENERAL**

### **1.01 PREVAILING AND OTHER REQUIRED WAGES**

- A. The Contractor shall pay (and shall ensure that all Subcontractors of any tier pay) all prevailing wages and other wages (such as Davis-Bacon Act wages) applicable to the Project.
- B. Pursuant to RCW 39.12, "Prevailing Wages on Public Works," no worker, laborer, or mechanic employed in the performance of any part of the Work shall be paid less than the "prevailing rate of wage" in effect as of the date that bids are due.
  - 1. Based on the bid submittal deadline for this project, the applicable effective date for prevailing wages for this project is August 31st, 2017.
- C. The State of Washington prevailing wage rates applicable for this public works project, which is located in Pierce County, may be found at the following website address of the Department of Labor and Industries:  
  
<https://fortress.wa.gov/lni/wagelookup/prvWagelookup.aspx>
- D. The schedule of the prevailing wage rates is made a part of the Contract Documents by reference as though fully set forth herein; and a copy of the applicable prevailing wage rates are also available for viewing at the Port Administration Building, located at One Sitcum Plaza, Tacoma, WA 98421 (253-383-5841). Upon request to the Procurement Department at [procurement@portoftacoma.com](mailto:procurement@portoftacoma.com), the Port will email or mail a hard copy of the applicable Journey Level prevailing wages for this project.
- E. Questions relating to prevailing wage data should be addressed to the Industrial Statistician.

Mailing Address: Washington State Department of Labor and Industries  
Prevailing Wage Office  
P.O. Box 44540  
Olympia, WA 98504

Telephone: (360) 902-5335

Facsimile: (360) 902-5300

- 1. If there is any discrepancy between the attached or provided schedule of prevailing wage rates and the published rates applicable under WAC 296-127-011, or if no schedule is attached, the applicable published rates shall apply with no increase in the Contract Sum. It is the Contractor's responsibility to ensure that the correct prevailing wage rates are paid.
- F. Statement to Pay Prevailing Wages
  - 1. Prior to any payment being made by the Port under this Contract, the Contractor, and each Subcontractor of any tier, shall file a Statement of Intent to Pay Prevailing Wages under oath with the Port and certified by the Director of Labor and Industries.
  - 2. The statement shall include the hourly wage rate to be paid to each classification of workers entitled to prevailing wages, which shall not be less than the prevailing rate of wage, and the estimated number of workers in each classification employed on the Project by the Contractor or a Subcontractor of any tier, as well as the Contractor's contractor registration number and other information required by the Director of Labor and Industries.

3. The statement, and any supplemental statements, shall be filed in accordance with the requirements of the Department of Labor and Industries. No progress payment shall be made until the Port receives such certified statement.
- G. The Contractor shall post in a location readily visible to workers at the Project site (1) a copy of the Statement of Intent to Pay Prevailing Wages approved by the Industrial Statistician of the Department of Labor and Industries and (2) the address and telephone number of the Industrial Statistician of the Department of Labor and Industries to whom a complaint or inquiry concerning prevailing wages may be directed.
- H. If a State of Washington prevailing wage rate conflicts with another applicable wage rate (such as Davis-Bacon Act wage rate) for the same labor classification, the higher of the two shall govern.
- I. Pursuant to RCW 39.12.060, if any dispute arises concerning the appropriate prevailing wage rate for work of a similar nature, and the dispute cannot be adjusted by the parties in interest, including labor and management representatives, the matter shall be referred for arbitration to the Director of the Department of Labor and Industries, and his or her decision shall be final and conclusive and binding on all parties involved in the dispute.
- J. Immediately following the end of all work completed under this Contract, the Contractor, and each Subcontractor of any tier, shall file an approved Affidavit of Wages Paid with the L&I.
- K. The Contractor shall defend (at the Contractor's sole cost, with legal counsel approved by Port), indemnify and hold the Port harmless from all liabilities, obligations, claims, demands, damages, disbursements, lawsuits, losses, fines, penalties, costs and expenses, whether direct, indirect, including but not limited to attorneys' fees and consultants' fees and other costs and expenses, from any violation or alleged violation by the Contractor or any Subcontractor of any tier of RCW 39.12 ("Prevailing Wages on Public Works") or Chapter 51 RCW ("Industrial Insurance"), including but not limited to RCW 51.12.050.

**PART 2 - PRODUCTS - NOT USED**

**PART 3 - EXECUTION - NOT USED**

**END OF SECTION**

**PART 1 - GENERAL**

**1.01 REQUIREMENTS APPLICABLE PORT-WIDE**

- A. The Contractor shall submit prior to the start of work a list of emergency contact numbers for itself and subcontractors, suppliers and manufacturer representatives. Each person on the project site shall have a valid identification card that is tamper proof with laminated photo identification such as one of the following:
1. State-issued Driver's license (also required if driving a vehicle)
  2. Card issued by a governmental agency
  3. Passport
  4. Identification card issued by the Port of Tacoma
  5. Pacific Maritime Association card, or
  6. Labor organization identification card
- B. Identification cards shall be visible while on the work site or easily displayed when requested.

**PART 2 - PRODUCTS - NOT USED**

**PART 3 - EXECUTION - NOT USED**

**END OF SECTION**

## PART 1 - GENERAL

### 1.01 SCOPE

- A. The accompanying Plans and Specifications show and describe the location and type of Work to be performed under this project. Work is more specifically defined on the drawings listed in Section 00 01 15.
  - 1. The Work under this contract is to provide, furnish and install all labor, materials and equipment required to complete the work, installed, tested, and ready for use, and as described in these documents.
  - 2. The West Hylebos Wharf Repairs consists of the following elements, but this summary neither necessarily nor completely describes all work elements or potential construction features. The Contractor shall review all the contract and project requirements.
    - a. Install timber bearing piles.
    - b. Restore and secure misaligned bearing piling.
    - c. Restore breasting dolphins including removal and replacement of timber piling, timber blocking, and associated components.

### 1.02 LOCATION

- A. The work is located at the West Hylebos Wharf adjacent to 3401 Taylor Way, Tacoma, WA 98421.

### 1.03 ACCESS TO SITE

- A. The Contractor shall have access to the construction site by Taylor Way. Space is available for Contractor's employee cars and other private vehicles; this space is subject to change throughout the project and shall be coordinated with the Port. The Contractor may be instructed by the Engineer to temporarily relocate entry and related work areas, as required by the Port.
- B. The Contractor shall observe that the access route from the site entrance to the project site falls within an active terminal where truck and log handling equipment traffic is significant at times. At all times the Contractor is to give right-of-way to the terminal traffic.
- C. Vessel calls at the site are typically between the 15<sup>th</sup> and 25<sup>th</sup> of any given month. The berth and upland areas are unavailable for storage, staging, and construction during the vessel call window.
- D. The Contractor shall coordinate with the Port an acceptable off-site location to temporarily relocate work barges to during vessel calls.

### 1.04 WORK PERFORMED UNDER SEPARATE CONTRACTS

- A. The Contractor shall, by way of the Engineer, familiarize itself with other contracts which have been awarded, about to be awarded, or are in progress in the same or immediate area. The Contractor shall coordinate the progress of its work with the established schedules for completion and phasing.
- B. At this time, there are no anticipated separate contracts to be awarded for work occurring in the immediate area of the West Hylebos Wharf Repairs project.

#### 1.05 PRE-ORDERED MATERIALS

- A. The Port has procured timber piling for the project. Coordinate pickup with the Engineer.
- B. The Contractor is responsible for inspection and acceptance of the Port-furnished piles. The Contractor shall report any deficiencies or defects within 25 of notice to proceed.

#### 1.06 ENGINEERING AND INSPECTION

- A. The Engineer will perform the necessary inspection work except as otherwise specified in the Contract Documents. Refer to Section 01 45 00, Quality Control, for general requirements.

#### 1.07 COORDINATION

- A. Port Activities: The Contractor will coordinate its activity with the Project Manager or project inspector, so interference with Port activities will be minimized. In addition, the Contractor shall carry out work in a manner that minimizes interference and does not delay Port operations.
- B. The Contractor will need to coordinate with the Project Manager or project inspector a minimum of 48 hours prior to commencing any construction activities on each of the dolphins.
- C. Other Contractors: The Contractor shall be responsible for coordinating site construction activities with other project work occurring under separate contracts. Site access areas will be shared with other contractors. The Contractor shall coordinate site construction activities including site access, parking and lay down areas with other project work occurring under separate contracts, and shall keep disruptions to other project work under separate contracts to a minimum.
- D. All costs associated with coordination of the work shall be considered incidental to the lump sum and unit prices bid.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 SECTION INCLUDES**

- A. This Section specifies work sequence and constraints.
- B. The purpose of the milestones, sequence and limitations of construction are to ensure that the Contractor understands the requirements and limitations on its work by the specific characteristics of the Contract, schedules and conducts work in a manner consistent with achieving these purposes, and complies with the construction schedule, the specific sequence, constraints, milestones and limitations of work specified.
- C. Sequence of construction: Plan the sequence of construction to accommodate all the requirements of the specifications. The Contract Price shall include all specified requirements as described in this Section.

### **1.02 CONTRACTOR ACCESS AND USE OF PREMISES**

- A. Activity Regulations
  - 1. Ensure Contractor personnel deployed to the project become familiar with and follow all regulations or restrictions established by the Engineer.
  - 2. Notice to Proceed will not be issued until the piles are recieved on site. Port reserves the right to adjust contract time based on actual delivery date of Port provided pile and/or as required to accomodate shipping schedules.
- B. Working Facility
  - 1. The Facility will remain in operation for the duration of construction. The Contractor shall conduct all items of the Work in such a manner as to prevent interference with the normal operations of the Facility.
- C. Work Site Regulations
  - 1. Keep within the limits of work and assigned avenues of ingress and egress. Do not enter any areas outside the designated work location unless previously approved by the Engineer. The Contractor must comply with the following conditions:
    - a. Restore all common areas to a clean and useable condition that permits the resumption of Tenant operations after the Contractor ceases daily work.
    - b. Be responsible for control and security of Contractor-owned equipment and materials at the work site. Report to Port Security (phone (253) 383-9472) any missing/lost/stolen property.
    - c. Ensure all materials, tools and equipment will be removed from the site or secured within the Port approved laydown area at the end of each shift.

## **PART 2 - PRODUCTS**

## **PART 3 - EXECUTION**

**END OF SECTION**

## PART 1 - GENERAL

### 1.01 PAYMENT PROCEDURES

- A. Monthly pay estimates shall clearly identify the work performed for the given time period based on a percentage of work completed for lump sum bid items.
- B. Prior to submitting pay estimates to the Port, the Contractor and the Engineer shall review the work accomplished to determine the actual quantities including labor, materials and equipment charges to be billed. Following the Engineer's review, the Contractor shall prepare an original pay estimate with complete supporting documentation attached and submit to the attention of the Contracts Department. The pay estimate may be mailed to Port of Tacoma, PO Box 1837, Tacoma WA 98401-1837, hand delivered to the Port Administration Building, One Sitcum Plaza, or submitted electronically using Adobe PDF file format to [cpinvoices@portoftacoma.com](mailto:cpinvoices@portoftacoma.com).

### 1.02 PAYMENT PRICING

- A. Pricing for the various lump sum or unit prices in the Bid Form, as further specified herein, shall include all compensation to be received by the Contractor for furnishing all tools, equipment, supplies, and manufactured articles, and for all labor, operations, and incidentals appurtenant to the items of work being described, as necessary to complete the various items of the work in accordance with the requirements of the Contract Documents.
- B. Pricing also includes all costs of compliance with the regulations of public agencies having jurisdiction, including safety and health requirements of the Occupational Safety and Health Administration of the U.S. Department of Labor (OSHA).
- C. No separate payment will be made for any item that is not specifically set forth in the Bid Form, and all costs therefore shall be included in the prices named in the Bid Form for the various appurtenant items of work.
- D. All other work not specifically mentioned in the measurement and payment sections identified below shall be considered incidental to the work performed and merged into the various unit and lump sum prices bid. Payment for work under one item will not be paid for under any other item.
- E. The Port of Tacoma reserves the right to make changes should unforeseen conditions necessitate such changes. Where work is on a unit price basis, the actual quantities occasioned by such changes shall govern the compensation.

### 1.03 MEASUREMENT PROCEDURES

- A. Material received at the job site but not satisfactory to the Engineer shall be rejected. All costs associated with the unsuitable material, including the expense of disposal in waste areas, shall be borne solely by the Contractor.

### 1.04 MEASUREMENT FOR PAYMENT

- A. The following sets forth a general description of the work covered in each bid item and may not be all inclusive. All work specifically indicated to be within these Specifications shall be performed whether or not specifically listed under an item description.

#### 1. BID ITEM NO. 1 - MOBILIZATION AND DEMOBILIZATION

- a. MOBILIZATION AND DEMOBILIZATION includes all work required for:
  - i. Preparatory and cleanup work and operations performed by the Contractor including, but not limited to, those necessary for the movement of its personnel, equipment, supplies and incidentals to and from the Project Site;

DIVISION 01 – GENERAL REQUIREMENTS  
SECTION 01 20 00 - PRICE AND PAYMENT PROCEDURES

- ii. Premiums on bonds and insurance for the Project, L&I Intents and Affidavits, and for other work and operations which must be performed or costs incurred before beginning work on the various items on the Project Site;
  - iii. Documenting existing conditions in the work areas by photographs, measurements, and other appropriate means;
  - iv. Establishing work zones and traffic control provisions;
  - v. Providing, maintaining, and removing temporary construction facilities;
  - vi. Locating, marking, and protecting existing active utilities within and near the work area that could potentially be damaged by Contractor's work under this Contract;
  - vii. Installation and removal of environmental controls and containment for the work;
  - viii. Performing specified construction Quality Assurance/Quality Control activities;
  - ix. Obtaining and submitting materials and equipment tests and certifications, guarantees, warranties, and other information for controlling the quality of the work;
  - x. Preparing and submitting specified As-Built Drawings;
  - xi. Costs associated with the preparation of individual work allocation estimates and billings; and
  - xii. All incidental work not included in other bid items.
- b. Payment for Mobilization & Demobilization shall be on the basis of the lump sum price stated in the Bid Form. Incremental payment shall be made as follows:
- i. 40% after completion of 5% of the total contract amount of other bid items have been earned.
  - ii. 40% after completion of 20% of the total contract amount of other bid items have been earned.
  - iii. 20% upon issuance of Substantial Completion by the Port.
2. BID ITEM NO. 2 – REPLACE BEARING PILE
- a. The Work of this item includes the cost of all labor, material, and equipment associated with transporting the Port-furnished timber pile to the site from the identified location; preparing, marking, installing, driving, and securing the pile under the existing pile cap; treating the pile top; and all other work incidental to this work.
  - b. This item will be measured and paid for based on a per each unit using actual quantities replaced as listed on approved daily reports.
3. BID ITEM NO. 3 – DECK REMOVAL AND RESTORATION
- a. The Work of this item includes the cost of all labor, material, and equipment associated with the preparation, removal, and disposal of the existing concrete decking and laminated timber decking; restoring the timber laminated deck and concrete deck following pile installation; and all other work incidental to this work. The concrete deck restoration shall include all concrete, steel reinforcing, couplers, and joint sealant.



- b. This item will be measured and paid for based on a per each unit using actual quantities replaced as listed on approved daily reports.
- 4. BID ITEM NO. 4 – RESTORE MISALIGNED PILE
  - a. The Work of this item includes the cost of all labor, material, and equipment associated with preparation, pulling the existing pile under the existing pile cap, securing the pile to the pile cap, providing all shims and blocking as necessary, and all other work incidental to this work.
  - b. This item will be measured and paid for based on a per each unit using actual quantities replaced as listed on approved daily reports.
- 5. BID ITEM NO. 5 – REPLACE DOLPHIN PILE
  - a. The Work of this item includes the cost of all labor, material, and equipment associated with preparation; removing and disposing of the existing pile; transporting the Port-furnished timber pile to the site from the identified location; marking, installing, and driving the pile to the specified tip elevation; and all other work incidental to this work.
  - b. This item will be measured and paid for based on a per each unit using actual quantities replaced as listed on approved daily reports.
- 6. BID ITEM NO. 6 – FRESH-HEAD DOLPHIN PILE
  - a. The Work of this item includes the cost of all labor, material, and equipment associated with preparation, lifting and cutting the existing pile top, disposing of the timber pile top, and all other work incidental to this work.
  - b. This item will be measured and paid for based on a per each unit using actual quantities replaced as listed on approved daily reports.
- 7. BID ITEM NO. 7 – REPLACE UPPER WIRE ROPE 5-WRAP LAYER
  - a. The Work of this item includes the cost of all labor, material, and equipment associated with preparation, removing and disposing of the existing upper wire rope wraps, repairing any damage to the dolphin piles caused by removing the wraps, procuring and installing the upper wire rope 5-wrap layer, and all other work incidental to this work.
  - b. This item will be measured and paid for based on a per each unit using actual quantities replaced as listed on approved daily reports.
- 8. BID ITEM NO. 8 – REPLACE LOWER WIRE ROPE 5-WRAP LAYER
  - a. The Work of this item includes the cost of all labor, material, and equipment associated with preparation, removing and disposing of the existing lower wire rope wraps, repairing any damage to the dolphin piles caused by removing the wraps, procuring and installing the lower wire rope 5-wrap layer, and all other work incidental to this work.
  - b. This item will be measured and paid for based on a per each unit using actual quantities replaced as listed on approved daily reports.
- 9. BID ITEM NO. 9 – REPLACE SIDE BLOCK
  - a. The Work of this item includes the cost of de all labor, material, and equipment associated with preparation; removing and disposing of the existing side block; procuring and installing the side block and associated bolts, washers, and nuts; and all other work incidental to this work.

DIVISION 01 – GENERAL REQUIREMENTS  
SECTION 01 20 00 - PRICE AND PAYMENT PROCEDURES

- b. This item will be measured and paid for based on a per each unit using actual quantities replaced as listed on approved daily reports.

10. BID ITEM NO. 10 – REPLACE BACKBOARD

- a. The Work of this item includes the cost of all labor, material, and equipment associated with preparation; removing and disposing of the existing backboard; and procuring and installing the backboard and associated bolts, washers, and nuts; and all other work incidental to this work.
- b. This item will be measured and paid for based on a per each unit using actual quantities replaced as listed on approved daily reports.

11. BID ITEM NO. 11 – REPLACE HOOK

- a. The Work of this item includes the cost of all labor, material, and equipment associated with preparation; removing and disposing of the existing hook; procuring and installing the hook and associated bolts, washers, and nuts; and all other work incidental to this work.
- b. This item will be measured and paid for based on a per each unit using actual quantities replaced as listed on approved daily reports.

12. BID ITEM NO. 12 – PROVIDE UHMW PE RUB STRIP

- a. The Work of this item includes the cost of all labor, material, and equipment associated with preparation, procuring, and installing the UHMW PE rub strips; associated bolts, washers, and nuts; and all other work incidental to this work.
- b. This item will be measured and paid for based on a per each unit using actual quantities replaced as listed on approved daily reports.

13. BID ITEM NO. 13 – REPLACE INTERNAL DOLPHIN BLOCKING

- a. The Work of this item includes the cost of all labor, material, and equipment associated with preparation, procuring, and installing the four (4) internal timber blocks, associated bolts, washers, and nuts, and all other work incidental to this work.
- b. This item will be measured and paid for based on a per each unit using actual quantities replaced as listed on approved daily reports.

14. BID ITEM NO. 14 – SEAL DOLPHIN PILE TOP

- a. The Work of this item includes the cost of all labor, material, and equipment associated with preparation, procuring, and installing a pile top seal including the mastic, aluminum sheet, and stainless steel nails, and all other work incidental to this work.
- b. This item will be measured and paid for based on a per each unit using actual quantities replaced as listed on approved daily reports.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General Conditions, Supplementary Conditions and Division 0 and 1 Specifications sections shall apply to all sections of the Contract Documents including specifications, drawings, addenda or other changes of documents issued for bidding/construction.

### **1.02 SUMMARY**

- A. Section includes administrative and procedural requirements for substitutions.

### **1.03 DEFINITIONS**

- A. Substitutions: Changes in products, materials, equipment and methods of construction from those required by the Contract Documents and proposed by Contractor.
- B. The contract documents include performance specifications for products and equipment which meet project requirements. In those cases where a representative item or manufacturer is named in the specification it is provided for the sole purpose of identifying a product meeting the required functional performance. Where the words “or equal” are used a substitution request as further described is not required.
- C. Where non-competitive or sole source products or manufacturers are explicitly specified with the words “or approved equal”, or “Engineer approved equal”, or “as approved by the Engineer” are used, they shall be taken to mean “or approved equal”. In these cases a substitution request as further described in this section, is required.

### **1.04 SUBMITTALS**

- A. Post-Award Substitution Requests: Submit a substitution request as defined in 01 33 00 – Submittal Procedures. All substitution requests must be submitted by the Contractor and not a subcontractor or supplier.
  - 1. Documentation: Show compliance with requirements for substitutions with the following, as applicable:
    - a. Statement indicating why specified product or fabrication or installation cannot be provided, if applicable.
    - b. Coordination information, including a list of changes or modifications needed to other parts of the Work that will be necessary to accommodate proposed substitution.
    - c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Include annotated copy of applicable specification section. Significant qualities may include, but are not limited to, attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified. .
    - d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
    - e. Samples, where applicable or requested.
    - f. Certificates and qualification data, where applicable or requested.
    - g. List of similar installations for completed projects with project names, and addresses. Also provide names and addresses of the AE and Owners.

- h. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
  - i. Research reports evidencing compliance with building code in effect for project
  - j. Comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
  - k. Cost information, including a proposal of change, if any, in the Contract Sum.
  - l. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
  - m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
- 2. Engineer's Action: If necessary, Engineer will request additional information or documentation for evaluation within 7 calendar days of receipt of a request for substitution. Engineer will notify Contractor through Port of acceptance or rejection of proposed substitution within 15 calendar days of receipt of request, or 7 calendar days of receipt of additional information or documentation, whichever is later.
  - a. Forms of Acceptance: Change Order or Minor Change in Work.
  - b. Use product originally specified if Engineer does not issue a decision on use of a proposed substitution within time allocated.
- B. Substitutions will not be considered when:
  - 1. Indicated or implied on shop drawings or product data submittals without formal request submitted in accordance with this Section.
  - 2. Submittal for substitution request has not been reviewed and approved by Contractor.
  - 3. Acceptance will require substantial revision of Contract Documents or other items of the Work.
  - 4. Submittal for substitution request does not include point-by-point comparison of proposed substitution with specified product.

#### 1.05 QUALITY ASSURANCE

- A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage qualified testing agency to perform compatibility tests recommended by manufacturers.

### PART 2 - PRODUCTS

#### 2.01 SUBSTITUTIONS

- A. Substitutions for Cause: Submit requests for substitution immediately upon discovery of need for change, but not later than 7 days prior to date required for preparation and review of related submittals.
  - 1. Conditions: Engineer will consider Contractor's request for substitution when the following conditions are satisfied:

- a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
  - b. Requested substitution will not adversely affect Contractor's construction schedule.
  - c. Requested substitution has received necessary approvals of authorities having jurisdiction.
  - d. Requested substitution is compatible with other portions of the Work
  - e. Requested substitution has been coordinated with other portions of the Work
  - f. Requested substitution provides specified warranty.
  - g. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.
- B. Substitutions for Convenience: Engineer will consider Contractor's requests for substitution if received within 14 days after the Notice of Award.
- 1. Conditions: Engineer will consider Contractor's request for substitution when the following conditions are satisfied:
    - a. Requested substitution offers Port a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Port must assume. Port's additional responsibilities may include compensation to Engineer for redesign and evaluation services, increased cost of other construction by Port, and similar considerations.
    - b. Requested substitution does not require extensive revisions to the Contract Documents.
    - c. Requested substitution is consistent with the Contract Documents and will produce indicated results.
    - d. Requested substitution will not adversely affect Contractor's construction schedule.
    - e. Requested substitution has received necessary approvals of authorities having jurisdiction.
    - f. Requested substitution is compatible with other portions of the Work.
    - g. Requested substitution has been coordinated with other portions of the Work.
    - h. Requested substitution provides specified warranty.
    - i. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

**PART 3 - EXECUTION - NOT USED**

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

### **1.02 SUMMARY**

- A. Section includes administrative and procedural requirements for handling and processing Contract modifications.

### **1.03 SUBMITTALS**

- A. The Contractor shall submit the following documentation to the Port:
  - 1. List of Labor Rates
    - a. For the Contractor and each subcontractor, a list of labor rates for each trade applicable to the scope of work to be performed. These submitted rates shall be broken down to include the base wage, fringes, FICA, SUTA, FUTA, industrial insurance and medical aid premiums as stated in the General Conditions. The rates shall not contain any travel time, safety, loss efficiency factors, overhead or profit. Rates shall be submitted for straight time, overtime and double time in a form acceptable to the Engineer. Contractor shall provide proof of all labor rate costs as required by the Engineer including the submission of a copy of the most current Workers Compensation Rate Notice from Labor & Industries and a copy of the Unemployment Insurance Tax Rate notice from the Employment security department.
      - 1) If labor rates change during the course of the project or additional labor rates become required to complete the work, the Contractor shall submit new rates for approval.
  - 2. List of Equipment.
    - a. Submit for the Contractor and each subcontractor, a list of equipment and rates applicable to the scope of work to be performed. The equipment rates shall conform to the rates shown on Equipment Watch. A separate page from equipment watch detailing the hourly rate shall be submitted as backup documentation for each piece of equipment.
      - 1) If the list of equipment and/or equipment rates changes during the course of the project or additional equipment becomes required to complete the work, the Contractor shall submit a new list and rates for approval.
  - 3. No applications for payment or change orders will be processed for the Contractor until labor and equipment rates have been submitted and approved.

### **1.04 METHOD TO CALCULATE ADJUSTMENTS TO CONTRACT PRICE**

- A. One of the following methods shall be used:
  - 1. Unit Price Method;
  - 2. Firm Fixed Price Method (Lump Sum); or,
  - 3. Time and Materials Method (Force Account).
- B. The Port preferred methods are firm fixed price or unit prices.

#### 1.05 MINOR CHANGES IN THE WORK

- A. Engineer will issue a written directive authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time.

#### 1.06 PROPOSAL REQUESTS

- A. Port-Initiated Proposal Requests: The Engineer will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
  - 1. Work Change Proposal Requests issued by Engineer are not instructions either to stop work in progress or to execute the proposed change.
  - 2. Contractor shall submit a written proposal within the time specified in the General Conditions. The proposal shall represent the Contractor's offer to perform the requested work, and the pricing set forth within the proposal shall represent full, complete, and final compensation for the proposed change and any impacts to any other Contract Work, including any adjustments in the Contract Time.
    - a. Include a breakdown of the changed work in sufficient detail that permits the Engineer to substantiate the costs.
      - 1) Generally, the cost breakdown should be divided into the time and materials categories listed in the General Conditions under Article 8.02B for either Lump Sum Proposals or Force Account Proposals.
      - 2) For Unit Price Proposals, include the quantity and description of all work involved in the unit pricing being proposed, along with a not to exceed total cost.
    - b. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
- B. Contractor-Initiated Proposals: If latent or differing site conditions require modifications to the Contract, the Contractor may initiate a claim by submitting a request for a change to the Engineer.
  - 1. Notify the Engineer immediately upon finding differing conditions prior to disturbing the site.
  - 2. Provide follow-up written notification and differing site conditions proposal within the time frames set forth in the General Conditions.
  - 3. Provide the differing site condition change proposal in the same or similar manner as described above under 1.04.A.
  - 4. Comply with requirements in Section 01 25 00 Substitution Procedures During Construction if the proposed change requires substitution of one product or system for product or system specified.
  - 5. Proposal Request Form: Use form acceptable to Engineer.

#### 1.07 PROCEEDING WITH CHANGED WORK

- A. The Engineer may issue a directive instructing the Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order per the General Conditions, Article 8.01.E.

1. The directive will contain a description of change in the Work and a not-to exceed amount. It will designate the method to be followed to determine the change in the Contract Sum or the Contract Time.

#### 1.08 CHANGE ORDER PROCEDURES

##### A. Issuance of Change Order

1. On approval of the Contractor's proposal, and following successful negotiations, the Engineer will issue a Change Order for signature by the Contractor and execution by the Engineer.
  - a. The Contractor shall sign and return the Change Order to the Engineer within **four (4) days** following receipt of the Change Order from the Engineer. If the Contractor fails to return the signed Change Order within the allotted time, the Engineer may issue a Unilateral Change Directive.

#### PART 2 - PRODUCTS - NOT USED

#### PART 3 - EXECUTION - NOT USED

**END OF SECTION**



## **PART 1 - GENERAL**

### **1.01 SUMMARY**

- A. This section includes specifications for preparation, format, and submittal of Schedule of Values.
- B. The Schedule of Values will establish unit prices for individual items of work.
- C. The Schedule of Values will be the basis for payment of contract work.

### **1.02 PREPARATION**

- A. To facilitate monthly pay requests, develop the Schedule of Values based on the Contractor's submitted Bid. The schedule of Values shall be used to provide an allocation of the Work for measurement and payment to a level of detail to ensure accurate payment for the Work accomplished.
- B. Obtain the agreement of the Engineer on the Schedule of Values. No payment will be made prior to an agreed upon Schedule of Values.
- C. Include an updated version of the Schedule of Values as changes occur. Update the Schedule of Values to include:
  - 1. Dollars earned and percent complete for the current progress payment period.
  - 2. Dollars earned and percent complete to-date, excluding the current progress payment period.
  - 3. Total dollars earned and percent complete to-date.
  - 4. Total dollars remaining
  - 5. Changes resulting from Change Orders
- D. The total value of the line items in the Schedule of Values plus any approved Change Orders shall be equal to the current approved contract price.
- E. The value of stored material shall be identified in the Schedule of Values with both a material-purchase activity and a separate corresponding installation activity in the Construction Schedule(s).
- F. Include as exhibits, drawings or sketches as necessary, to better define the limits of pay items that are in close proximity and that have no clear boundary in the Contract Drawings.

### **1.03 SUBMITTAL**

- A. Submit preliminary Schedule of Values within 10 days of the effective date of the Notice to Proceed.
- B. Submit corrected Schedule of Values within 10 days upon receipt of reviewed Schedule of Values.
- C. At the Engineer's request, submit documentation substantiating the cost allocations for line items within the Schedule of Values.

## **PART 2 - PRODUCTS - NOT USED**

## **PART 3 - EXECUTION**

### **3.01 SCHEDULE OF VALUES**

- A. Submit the Schedule of Values in a form acceptable to the Engineer.

- B. Provide updated Schedule of Values as required by the Engineer and as indicated in the Contract Documents.

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 SCOPE**

- A. The purpose of this section is to provide the framework for communication between the Port and the Contractor by defining the types and timing of administrative tasks including meetings and other items related to communications.

### **1.02 NOTICE TO PROCEED**

- A. Contract execution will be made per the requirements of the Contract Documents. Once the contract has been executed and all pre-work submittals have been received, the Engineer will issue a Notice to Proceed (NTP).
  - 1. In certain instances, the Engineer may issue to the Contractor a Limited NTP for specified elements of the work described in these Contract Documents.
- B. The Contractor shall submit all pre-work submittals within 10 days of contract execution.
  - 1. A list of all pre-work submittals required for NTP is attached to this section.
  - 2. No contract time extension shall be granted for any delays in issuance of the NTP by the Engineer due to the Contractor's failure to provide acceptable submittals required by the Contract Documents.

### **1.03 SUBMITTALS**

- A. List of Contractor and Subcontractor Personnel
  - 1. Submit list as required in section 00 73 63 – Security Requirements
  - 2. List of Contractor and Subcontractor Personnel
  - 3. List of Emergency Contacts
  - 4. Submittal Log
  - 5. Schedule of Values
  - 6. Health and Safety Plan
  - 7. Spill Prevention, Control and Countermeasure Plan
  - 8. Construction stormwater Pollution Prevention Plan
  - 9. Waste Management Plan
  - 10. Detailed CPM Project Schedule
  - 11. Detailed Demolition Plan
  - 12. Detailed list of Pile Driving Equipment
  - 13. Detailed Pile Driving Procedures

### **1.04 COORDINATION**

- A. The Contractor shall coordinate all its activities through the Engineer.
- B. The Contractor shall coordinate construction operations as required to execute the Work efficiently, to obtain the best results where installation of one part of the Work depends on other portions.

## 1.05 PROJECT MEETINGS

### A. Pre-Construction Meeting

1. After execution of the contract but prior to commencement of any work at the site, a mandatory one time meeting will be scheduled by the Engineer to discuss and develop a mutual understanding relative to the administration of the safety program, preparation of the schedule of values, change orders, RFI's, submittals, scheduling prosecution of the work. Major subcontractors who will engage in the work shall attend.
2. Suggested Agenda: The agenda will include items of significance to the project.
3. Location of the Pre-Construction Meeting will be held at the Port of Tacoma Administration Building located at One Sitcum Plaza.

### B. Weekly Progress Meetings – Progress meetings include the Contractor, Engineer, consultants and others affected by decisions made.

1. The Engineer will arrange meetings, prepare standard agenda with copies for participants, preside at meetings, record minutes and distribute copies within ten working days to the Contractor, meeting participants, and others affected by decisions made.
  - a. The Engineer will approve submitted meeting minutes in writing within 10 working days.
2. Attendance is required for the Contractor's job superintendent, major subcontractors and suppliers, Engineer, and representatives of the Port as appropriate to the agenda topics for each meeting.
3. Standard Agenda
  - a. Review minutes of previous meeting.
  - b. Review of work progress.
  - c. Field observations, problems, and decisions.
  - d. Identification of problems that impede planned progress.
  - e. Maintenance of Progress Schedule (3 weeks ahead; 1 week back).
  - f. Corrective measures to regain projected schedules.
  - g. Planned progress during succeeding work period.
  - h. Coordination of projected progress.
  - i. Maintenance of quality and work standards.
  - j. Effect of proposed changes on progress schedule and coordination.
  - k. Demonstration that the project record drawings are up-to-date.
  - l. Other business relating to the work.

**PART 2 - PRODUCTS - NOT USED**

**PART 3 - EXECUTION - NOT USED**

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.1 DESCRIPTION**

- A. The Port and Contractor shall use the Port Contract Management application (eBuilder®) for electronic information exchange throughout the duration of the Contract as later described.
- B. eBuilder is a web-based application accessed through a web portal.
  - 1. The Contractor will receive up to two separate user accounts for access to eBuilder®.
- C. The joint use of this system is to facilitate and coordinate the electronic exchange of Requests for Information, Submittals, Change Order Proposals, Pay Estimates and project specific correspondence.

### **1.2 USER ACCESS LIMITATIONS**

- A. Contractor's access to eBuilder® is granted and controlled by the Engineer.
  - 1. The users assigned by the Contractor to use eBuilder shall be competent and experienced with the practices commonly employed in the industry for electronically submitting requests for information, submittals, product data, shop drawings and related items as required by the contract and the methods commonly used for project correspondence transmission and filing.
  - 2. Any users assigned by the Contractor whom the Engineer determines is incapable of performing the prescribed tasks in an accurate, competent and efficient manner will be removed upon request from the Engineer. The qualifications and identity of a replacement user shall be submitted within 24 hours for consideration by the Engineer. Once accepted by the Engineer, the user account will be modified accordingly.

### **1.3 CONTRACTOR COMPUTER HARDWARE REQUIREMENTS**

- A. The Contractor is responsible for providing and maintaining the following:
  - 1. Hardware and integrated software capable of running one of the following personal computer operating systems; Microsoft Windows XP SP3 (or newer) or Mac OS X.

### **1.4 CONTRACTOR COMPUTER SOFTWARE REQUIREMENTS**

- A. The Contractor is responsible for providing and maintaining the following:
  - 1. A personal computer OS such as Microsoft Windows XP SP3 (or newer) or Mac OS X.
  - 2. A web browser such as Internet Explorer™ 8.0 - 11.0, Google Chrome™ v29 (32 bit), Mozilla Firefox™ 35.0.1, Safari™ for Mac v6.0.4, Safari for iOS™ mobile v6.1 for Windows XP, SP3+ and Mac OS X for gaining access to eBuilder®.
  - 3. An office suite that is Microsoft Office 2010 compatible for generation and manipulation of correspondence.
  - 4. A program capable of editing, annotating and manipulating Adobe pdf files for inserting the Contractor's review stamp, clouding and adding notation to the files as necessary for review by the Engineer.
  - 5. IT support capable of making, maintaining and troubleshooting connection to eBuilder.

### **1.5 CONTRACTOR RESPONSIBILITY**

- A. Provide all the equipment, internet connections, software, personnel and expertise required to support the use of eBuilder as described in the Contract documents.

#### 1.6 PORT RESPONSIBILITY

- A. Provide the Contractor with all forms necessary for application to obtain permissions to access eBuilder® as described above.
- B. Provide information, basic user guides and requirements on methods for using eBuilder®.
- C. Provide training for the Contractor's staff utilizing eBuilder.
- D. Provide the Contractor with up to two (2) user accounts to access eBuilder.

#### **PART 2 - PRODUCTS - NOT USED**

#### **PART 3 - EXECUTION**

##### 3.1 UTILIZATION OF EBUILDER®

- A. The Contractor shall provide required information in a timely manner that also supports the project schedule and meets the requirements of the Contract.
- B. The Contractor shall provide and maintain competent and qualified personnel to perform the various tasks required to support the work within eBuilder®.
- C. The Port will not be liable for any delays associated from the usage of eBuilder® including, but not limited to: slow response time, Port maintenance and off-line periods, connectivity problems or loss of information. Under no circumstances shall the usage of eBuilder® software be grounds for a time extension or cost adjustment to the contract.

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 RELATED WORK DESCRIBED ELSEWHERE**

- A. The provisions and intent of the Contract, including the General Conditions apply to this work as if specified in this section. Work related to this section is described throughout these Specifications
- B. Individual submittals required in accordance with the pertinent sections of these specifications. Other submittals may be required during the course of the project and are considered part of the normal work to be completed under the Contract.

### **1.02 SUBMITTAL LOG**

- A. Contractor shall, within 14 days of Contract Execution prepare and submit for Engineer approval a detailed log of all the submittals required under this Contract, along with any other submittals identified by the Port or Contractor. The log shall include, but not be limited to, schedules, required construction work plans, equipment and material cut sheets, shop drawings, project record documents, test results, survey records, record drawings, results of QC testing, and all other items for which a submittal is required. The submittal log shall be organized by CSI Specification Division, and Section number and include the following information:
  - 1. Submittal Number
  - 2. Item identification.
  - 3. Scheduled submittal date, date returned, date approved.
  - 4. Date submittal or material is needed.
  - 5. After the submittal log is reviewed and approved by the Engineer, it shall become the basis for the submittal of all items by Contractor.

### **1.03 COMPLIANCE**

- A. Failure to comply with these requirements shall be deemed as the Contractor's agreement to furnish the exact materials specified or materials selected by the Engineer based on these specifications.

### **1.04 SHOP DRAWINGS AND MANUFACTURERS' LITERATURE**

- A. The Port will not accept shop drawings that prohibit the Port from making copies for its own use.
- B. Shop drawings shall be prepared accurately and to a scale sufficiently large to indicate all pertinent features of the products and the method of fabrication, connection, erection, or assembly with respect to the work.
- C. All drawings submitted to the Engineer for approval shall be drawn to scale as ANSI D
- D. Required electronic formats for these drawings are as follows:
  - 1. AutoCad DWG
  - 2. PDF - Formatted to print to half-scale using 11x17 paper.
- E. Catalog cuts or brochures shall show the type, size, ratings, style, color, manufacturer, and catalog number of each item and be complete enough to provide for positive and rapid identification in the field. General catalogs or partial lists will not be accepted. Manufacturers' original electronic files are required for submitting.

### 1.05 SUBMITTAL REVIEW

- A. After review of each of Contractor's submittals, the submittal will be returned to Contractor with a form indicating one or more of the following:
  - 1. No Exceptions Taken – Means, accepted subject to its compatibility with future submittals and additional partial submittals for portions of the work not covered in this submittal. But it does not constitute approval or deletion of specified or required items not shown in the partial submittal.
  - 2. Make Corrections Noted – Same as Item 1, except that minor corrections as noted shall be made by Contractor.
  - 3. Reviewed – Submittal has been reviewed by the port. Does not constitute approval and The Contractor is responsible for requirements in submittal.
  - 4. Review as Noted – Submittal has to be reviewed by the Port with comments as noted.
  - 5. Revise and Resubmit – Means, rejected because of major inconsistencies or errors. Resolve or correct before next submittal.
  - 6.
- B. Submittals marked "No Exceptions Taken", "Make Corrections Noted" or "Reviewed as Noted" authorizes Contractor to proceed with construction covered by those data sheets or shop drawings with corrections, if any, incorporated.
- C. When submittals or prints of shop drawings have been marked "Revise and Resubmit" or "Rejected-," Contractor shall make the necessary corrections and submit required copies. Every revision shall be shown by number, date, and subject in a revision block, and each revised shop drawing shall have its latest revision numbers and items clearly indicated by clouding around the revised areas on the shop drawing.
- D. Submittals authorized by the Engineer do not in any case supersede the Contract Documents. The approval by the Engineer shall not relieve the Contractor from responsibility to conform to the Drawings or Specifications, or correct details when in error, or ensure the proper fit of parts when installed. A favorable review by the Port of shop drawings, method of work, or information regarding material and equipment Contractor proposes to furnish shall not relieve Contractor of its responsibility for errors therein and shall not be regarded as assumption of risk or liability by the Port or its officers, employees, or representatives. Contractor shall have no claim under the Contract on account of failure or partial failure, or inefficiency or insufficiency of any plan or method of work, or material and equipment so accepted. Favorable review means that the Port has no objection to Contractor using, upon its own full responsibility, the plan or method of work proposed, or furnishing the material and equipment proposed.
- E. It is considered reasonable that the Contractor's submittals shall be complete and acceptable by at least the second submission of each submittal. The Port reserves the right to deduct monies from payments due Contractor to cover additional costs for review beyond the second submission.

### **PART 2 - PRODUCTS - NOT USED**

### **PART 3 - EXECUTION**

#### 3.01 PREPARATION OF SUBMITTALS

- A. The Contractor shall use the eBuilder software to submit all shop drawings, catalog cuts, brochures including samples which must be hand-delivered. Notes, clouding, arrows or other post document generation notations must be applied directly into the electronic file using



software designed for that purpose. **Each submittal shall be accompanied by a transmittal developed within the eBuilder software.**

- B. A separate submittal shall be prepared for each product or procedure and shall be further identified by referencing the Specification Section and paragraph number and each submittal shall be numbered consecutively. An example of the numbering protocol is given here for an Electrical Submittal "26 05 33-001 - PVC Schedule 80 Conduit". If something is rejected and needs resubmitted it gets resubmitted with the same number adding an R for revised or .1, but the submittal number stays the same ALWAYS.
- C. Product submittals that cannot be accomplished electronically shall be accompanied by a printed version of the transmittal developed within eBuilder. These submittals will be hand delivered to the Port offices at One Sitcum Plaza, Attention: Engineering Department.
- D. Shop and detail drawings shall be submitted in related packages. All equipment or material details which are interdependent or are related in any way must be submitted indicating the complete installation. Submittals shall not be altered once marked "No Exceptions Taken" Revisions shall be clearly marked and dated. Major revisions must be submitted for approval.
- E. The Contractor shall thoroughly review all shop and detail drawings, prior to submittal, to assure coordination with other parts of the work.
- F. Components or materials which require shop drawings and which arrive at the job site prior to approval of shop drawings shall be considered as not being made for this project and shall be subject to rejection and removal from the premises.
- G. All submittal packages including (but not limited to) product data sheets, mix designs, shop drawings and other required information for submittal must be submitted, reviewed and approved before the relevant scheduled task may commence. It is the responsibility of the Contractor to provide the submittal information which may drive a task on the construction schedule to submit items well enough in advance as to provide adequate time for review and comment from the Engineer without adversely impacting the construction schedule.
- H. When completing the eBuilder submittal form, a Date Due field is required to be completed. This field is intended to inform the Port of the urgency of the submittal. Failure of the Port to return the submittal by the date provided by the Contractor will not be considered grounds for a contract time extension.

### 3.02 MAINTENANCE OF SUBMITTAL LOG

- A. Prepare and submit for Port review a detailed submittal log conforming to the requirements of paragraph 1.02 of this section. When approved by the Engineer use the submittal log to track the transmittal of submittals to the Engineer, the receipt of submittal comments from the Engineer, and all subsequent action with respect to each submittal. Provide an updated copy of the submittal log to the Engineer during each weekly progress meeting, unless otherwise approved by the Engineer.

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 DESCRIPTION OF WORK**

- A. The work includes the requirements for health and safety provisions necessary for all work at the site for this project. The work also includes compliance with all laws, regulations and ordinances with respect to safety, noise, dust, fire and police action, civil disobedience, security or traffic.
- B. Some of the work tasks may place workers in the potential position of coming into contact with regulated building materials, waste, or environmental media. Detailed information regarding the known nature and extent of refuse and regulated materials in the project area is included in Section 00 31 26 Existing Hazardous Material Information.
- C. The Contractor shall monitor site conditions for indications of identified and other potentially hazardous, dangerous, and/or regulated materials (suspicious material). Indicators of suspicious material include, but are not limited to, refuse, oily sheen or coloring on soil or water, or oily or chemical odors. If suspicious materials are encountered, the Contractor shall stop all work in that area and notify the Engineer immediately.

### **1.02 SUBMITTALS**

- A. Prior to the start of any Work, the Contractor shall provide a site specific Health and Safety Plan (HASP), which meets all the requirements of local, state and federal laws, rules and regulations. The HASP shall address all requirements for general health and safety and shall include but not be limited to:
  - 1. Description of work to be performed and anticipated chemical and/or physical hazards associated with the work.
  - 2. Map of the site(s) illustrating the location of the anticipated hazards and areas of control for those hazards (including containments, exclusion/work zones, and contaminant reduction/decontamination zones).
  - 3. Hazardous material inventory and safety data sheets (SDSs) for all chemicals which will be brought on site.
  - 4. Signage appropriate to warn site personnel and visitors of anticipated site hazards.
  - 5. Documentation that the necessary workers have completed the required Hazardous Waste Operations and Emergency Response (HAZWOPER) training.
  - 6. Engineering controls/equipment to be used to protect against anticipated hazards.
  - 7. Personal protective equipment and clothing including head, foot, skin, eye, and respiratory protection.
  - 8. Procedures which will be used for:
    - a. Fall protection;
    - b. Suspicious materials and/or unidentified materials;
    - c. Odorous conditions and toxic gases.
  - 9. Site housekeeping procedures and personal hygiene practices.
  - 10. Administrative controls.
  - 11. Emergency plan including locations of and route to nearest hospital.

12. Medical surveillance program for site personnel before, during, and after completion of site work.
  13. Recordkeeping including:
    - a. Documentation of appropriate employee training (e.g., Hazardous Waste Operations and Emergency Response [HAZWOPER] 40-hour training for staff involved with excavation and handling of soil)
  14. Name and qualification of person preparing the HASP and person designated to implement and enforce the HASP.
  15. Name and qualifications for Certified Safety Professional (CSP) or Certified Industrial Hygienist (CIH) and a copy of the CIH's or CSP's certification and resume.
  16. Excavation, stockpiling, and truck loading procedures.
  17. Lighting and sanitation.
  18. Signatory page for site personnel to acknowledge receipt, understanding, and agreement to comply with the HASP.
- B. Prior to the start of any Work, the Contractor shall provide a site specific Spill Prevention, Control and Countermeasures (SPCC) Plan, which meets all the requirements of local, state and federal laws, rules and regulations.
- C. Contractor may submit the HASP and SPCC Plan as one comprehensive document or may submit the plans as separate documents.

### 1.03 POTENTIAL CHEMICAL HAZARDS

- A. Site Contaminants
1. The Contractor must provide site workers with Hazard Communication standard information for potential site contaminants (in accordance with WAC 296-843). The Contractor shall ensure that all site workers are aware of and understand this information. Additional information shall also be provided by the Contractor, as necessary, to meet the Hazard Communication Standard and HASP requirements as noted in WAC 296-901-14010 and 296-843. Workers shall be instructed on basic methods or techniques to assist in detecting suspicious material.
- B. Potential Exposures Routes
1. Inhalation: Airborne dusts, fibers, particulates, or vapors may be released during site activities. Inhalation of airborne inorganic arsenic may occur.
  2. Skin and Eye Contact: Dusts generated during site work activities may settle on the skin or clothing of site workers. Also, workers may contact potentially regulated sediments, or water, in the normal course of their work. Precautions to prevent skin or eye contact with hazardous materials will be included in the HASP. Arsenic exposure may cause skin irritation.
  3. Ingestion: Inadvertent transfer of site contaminants from hands or other objects to the mouth could occur if site workers eat, drink, smoke, chew tobacco, or engage in similar activities in work areas. This could result in ingestion of site contaminants. Precautions to prevent accidental or inadvertent ingestion of hazardous materials will be included in the HASP.
- C. Chemical hazards may also result from Contractor operations resulting in inadvertent release of fuel, oil, or other chemicals in a manner that would expose workers.

#### 1.04 POTENTIAL PHYSICAL AND OTHER HAZARDS

- A. The Work of the Contractor is described elsewhere in these specifications. Precautions to prevent all anticipated physical and other hazards, including heavy equipment and vessels, shall be addressed in the HASP.
- B. Specific aspects of construction resulting in physical hazards anticipated for this project include, but are not limited to the following:
  - 1. Work over or adjacent to water, presenting hazards of falling into water, hypothermia from exposure to the elements, and drowning.
  - 2. Operation of marine equipment, including winches, dredges, and related equipment, entrapment, ensnarement, and being struck by moving parts hazards
  - 3. Completion of diver surveys with specific health and safety elements.
  - 4. Major hazards associated with earthwork impacts from moving construction vehicles and trucks, noise, thermal stress, contact with unguarded machines, excavation hazards (i.e., cave-in, utility, etc.), strains from heavy lifting, and reduced visibility and communications difficulties in work area.
  - 5. Operation of equipment, including excavators, loaders, and related equipment, presenting hazards of entrapment, ensnarement, and being struck by moving parts.
- C. Other anticipated physical hazards:
  - 1. Heat stress, such as that potentially caused by impermeable clothing (may reduce the cooling ability of the body due to evaporation reduction).
  - 2. Cold stress, such as that potentially caused during times when temperatures are low, winds are high, especially when precipitation occurs during these conditions.
  - 3. Biological hazards, such as mold, insect stings, or bites, poisonous plants (i.e., poison oak, sumac, etc.).
  - 4. Trips and falls

### **PART 2 - PRODUCTS**

#### 2.01 SAFETY SIGNAGE

- A. The Contractor shall provide signage at strategic locations within the project site to alert jobsite workers and visitors of the remediation work, associated hazards, and required precautions.

#### 2.02 PRODUCTS SPECIFIED FOR HEALTH AND SAFETY

- A. Provide the equipment and supplies necessary to support the work as described in the site-specific HASP. Equipment and supplies may include but are not limited to:
  - 1. All chemicals to be used on site;
  - 2. A hazardous materials inventory and SDSs for the chemicals brought on site;
  - 3. Fencing and barriers;
  - 4. Warning signs and labels;
  - 5. Fire extinguishers;
  - 6. Scaffolding and fall protection equipment;
  - 7. Personal protective equipment (hard hats, foot gear, skin, eye, and respiratory protection);

8. Demolition equipment and supplies;
9. First aid equipment;
10. Spill response and spill prevention equipment; and
11. Field documentation logs/supplies

### **PART 3 - EXECUTION**

#### **3.01 WORK AREA PREPARATION**

- A. Contractor shall comply with health and safety rules, regulations, ordinances promulgated by the local, state, and federal government, the various construction permits, and other sections of the Contract Documents. Such compliance shall include, but not be specifically limited to: any and all protective devices, equipment and clothing; guards; restraints; locks; latches; switches; and other safety provisions that may be required or necessitated by state and federal safety regulations. The Contractor shall determine the specific requirements for safety provisions and shall have inspections and reports by the appropriate safety authorities to be conducted to ensure compliance with the intent of the regulations.
- B. Contractor shall inform employees, subcontractors and their employees of the potential danger in working with any potentially regulated materials, equipment, soils and groundwater at the project site.
  1. The Contractor shall not proceed with jobsite activities that might result in exposure of employees to hazardous materials, including arsenic, until the HASP is reviewed by the Engineer.
  2. In addition, the Engineer will submit a copy of the Contractor's HASP to Ecology for review. Ecology and the Engineer will review but not approve HASP.
- C. All Contractor employees expected to work at the jobsite or individuals entering the jobsite shall read the Contractor HASP before they enter the jobsite, and will sign a statement provided by the Contractor that they have read and understand the HASP. A copy of the Contractor's HASP shall be readily available at the site at all times the work is being performed.
- D. The Contractor's HASP shall be amended as needed by the CIH or CSP to include special work practices warranted by jobsite conditions actually encountered. Special practices could include provisions for decontamination of personnel and equipment, and the use of special equipment not covered in the initial plan.
- E. Contractor shall perform whatever work is necessary for safety and be solely and completely responsible for conditions of the job site, including safety of all persons (including employees of the Engineer, Engineer's Representative, and Contractor) and property during the Contract period. This requirement applies continuously and is not limited to normal working hours.
- F. The Engineer's review of the Contractor's performance does not include an opinion regarding the adequacy of, or approval of, the Contractor's safety supervisor, the site-specific HASP, safety program or safety measures taken in, on, or near the job site.
- G. Accidents causing death, injury, or damage must be reported immediately to the Engineer and the Port Security Department in person or by telephone or messenger. In addition, promptly report in writing to the Engineer all accidents whatsoever arising out of, or in connection with, the performance of the work whether on, or adjacent to, the site, giving full details and statements of witnesses.

- H. If a claim is made by anyone against the Contractor or any subcontractor on account of any accident, the Contractor shall promptly report the facts in writing within 24 hours after occurrence, to the Engineer, giving full details of the claim.

### 3.02 SITE SAFETY AND HEALTH OFFICER

- A. Contractor shall provide a person designated as the Site Safety and Health Officer, who is thoroughly trained in rescue procedures, has a minimum current 40-hour HAZWOPER certification (minimum), and trained to use all necessary safety equipment, air monitoring equipment, and gas detectors. The person must be available and/or present at all times while work is being performed, and conduct testing, as necessary.
- B. The Site Safety and Health Officer shall be empowered with the delegated authority to order any person or worker on the project site to follow the safety rules. Failure to observe these rules is sufficient cause for removal of the person or worker(s) from this project.
- C. The Site Safety and Health Officer is responsible for determining the extent to which any safety equipment must be utilized, depending on conditions encountered at the site.

### 3.03 SPILL PREVENTION AND CONTROL

- A. The Contractor shall be responsible for prevention, containment and cleanup of spilling petroleum and other chemicals/hazardous materials used in the Contractor's operations. All such prevention, containment and cleanup costs shall be borne by the Contractor.
- B. The Contractor is advised that discharge of oil, fuel, other petroleum, or any chemicals/hazardous materials from equipment or facilities into state waters or onto adjacent land is not permitted under state water quality regulations.
- C. In the event of a discharge of oil, fuel or chemicals/hazardous materials into waters, or onto land with a potential for entry into waters, containment and cleanup efforts shall begin immediately and be completed as soon as possible, taking precedence over normal work. Cleanup shall include proper disposal of all spilled material and used cleanup materials.
- D. The Contractor shall, at a minimum, take the following measures regarding spill prevention, containment and cleanup.
  - 1. Fuel hoses, lubrication equipment, hydraulically operated equipment, oil drums and other equipment and facilities shall be inspected regularly for drips, leaks or signs of damage, and shall be maintained and stored properly to prevent spills. Proper security shall be maintained to discourage vandalism.
  - 2. All land-based chemical, oil and products' storage tanks shall be diked, contained and/or located so as to prevent spills from escaping into the water. Dikes and containment area surfaces shall be lined with impervious material to prevent chemicals or oil from seeping through the ground and dikes.
  - 3. All visible floating sheen shall be immediately contained with booms, dikes or other appropriate means and removed from the water prior to discharge into state waters. All visible spills on land shall be immediately contained using dikes, straw bales or other appropriate means and removed using sand, sawdust or other absorbent material, which shall be properly disposed of by the Contractor. Waste materials shall be temporarily stored in drums or other leak-proof containers after cleanup and during transport to disposal. Waste materials shall be disposed offsite in accordance with applicable local, state and federal regulations.

4. In the event of any oil or product discharges into public waters, or onto land with a potential for entry into public waters, the Contractor shall immediately notify the Port Security at their listed 24-hour response number:
  - a. Port Security: 253-383-9472
- E. The Contractor shall maintain the following materials (as a minimum) at each of the project sites:
  1. Oil-absorbent booms: 100 feet.
  2. Oil-absorbent pads or bulk material, adequate for coverage of 200 square feet of surface area.
  3. Oil-skimming system.
  4. Oil dry-all, gloves and plastic bags.

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 SUMMARY**

- A. This Section discloses procedures to follow if unknown regulated materials are encountered.

### **1.02 RELATED WORK SPECIFIED ELSEWHERE**

- A. The provisions and intent of the Contract, including the General Conditions, Supplementary Conditions, and General Requirements, apply to this work as specified in this section. Work related to this Section is described in, but not limited to:

1. Section 01 35 29 – Health, Safety, and Emergency Response Procedures
2. Section 01 74 19 – Waste Management and Disposal
3. Section 02 41 00 – Site Demolition

### **1.03 NOTIFICATION AND SUSPENSION**

- A. In the event the Contractor detects the presence of potentially regulated materials not previously identified in this specification, the Contractor shall stop work and immediately notify the Port. Following such notification by the Contractor, the Port shall in turn notify the various governmental and regulatory agencies concerned with the presence of regulated materials, if warranted. Depending upon the type of materials identified, the Port may suspend work in the vicinity of the discovery under the provisions of General Conditions.
1. Following completion of any further testing necessary to determine the nature of the materials involved, the Port will determine how the material shall be managed. Although the actual procedures used in resuming the work shall depend upon the nature and extent of the regulated material, the following alternate methods of operation are foreseen as possible:
    - a. Contractor to resume work as before the suspension.
    - b. Contractor to move its operations to another portion of the work until measures to eliminate any hazardous conditions can be developed and approved by the appropriate regulatory agencies.
    - c. The Port to direct the Contractor to dispose or treat the material in an approved manner.
    - d. The Port to terminate or modify the Contract accordingly, for unforeseen conditions.

## **PART 2 - PRODUCTS - NOT USED**

## **PART 3 - EXECUTION - NOT USED**

**END OF SECTION**



## **PART 1 - GENERAL**

### **1.01 DESCRIPTION OF WORK**

- A. The Work includes the requirements to provide air and noise control measures until Final Completion of the Work.

### **1.02 SUBMITTALS**

- A. Prior to Notice to Proceed, the Contractor shall submit of a list of equipment to be used on the project and certify in writing that all equipment on the list and any additional equipment, including Contractor's, subcontractors or supplier's equipment, shall meet the requirements of 3.01 below.

## **PART 2 - PRODUCTS - NOT USED**

## **PART 3 – EXECUTION**

### **3.01 AIR POLLUTION CONTROL**

- A. The Contractor shall meet or exceed EPA Tier 2 off-road diesel engine emission standards for off-road equipment  $\geq 25$ hp and meet or exceed EPA 1994 on-road diesel engine emission standards for on-road equipment except as follows:
  - 1. Equipment being used in an emergency or public safety capacity
- B. The Contractor shall not discharge smoke, dust, and other hazardous materials into the atmosphere that violate local, state or federal regulations.
- C. No vehicles can idle for more than 5 consecutive minutes, except as follows:
  - 1. Idling is required to bring or maintain the equipment to operating temperature;
  - 2. Engine idling is necessary to accomplish work for which the equipment was designed (i.e. operating a crane)
  - 3. Idling vehicles being used in an emergency or public safety capacity.
- D. The Contractor shall minimize nuisance dust by cleaning, sweeping, vacuum sweeping, sprinkling with water, or other means. Equipment for this operation shall be on the job site or available at all times.

### **3.02 NOISE CONTROL**

- A. The Contractor shall comply with all local controls and noise level rules, regulations and ordinances which apply to work performed pursuant to the Contract.
- B. All internal combustion engines used on the job shall be equipped with a muffler of a type recommended by the manufacturer.

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 PERMITS, CODES AND REGULATIONS**

- A. The following permits/approvals have been applied for (or are on file) and incorporated into the Contract:
  - 1. U.S. Army Corps of Engineers 401/Section 10 Programmatic Pile Permit (NWS-2011-0089-WRD)
  - 2. Washington Department of Ecology 401 Water Quality Certification (#9244)
  - 3. Washington Department of Ecology Coastal Zone Management Act Consistency
  - 4. Washington Department of Fish and Wildlife Hydraulic Project Approval (2016-6-119-01)
  - 5. City of Tacoma Shoreline Substantial Development Permit Exemption (SHR2013-400000215154)
- B. Conform with the requirements of listed permits and additional or other applicable permits, codes, and regulations as may govern the Work.
- C. Obtain and pay fees for licenses, permits, inspections, and approvals required by laws ordinances, and rules of appropriate governing or approving agencies necessary for proper completion of Work (other than those listed under item 1.01A above and Special Inspections called for by the International Building Code).
- D. Conform with current applicable codes, regulations and standards, which is the minimum standard of quality for material and workmanship. Provide labor, materials, and equipment necessary for compliance with code requirements or interpretations, although not specifically detailed in Drawings or specifications. Be familiar with applicable codes and standards prior to bidding.
- E. Process through Engineer, request to extend, modify, revise, or renew any of the permits (listed in 1.01.A above). Furnish requests in writing and include a narrative description and adequate Drawings to clearly describe and depict proposed action. Do not contact regulatory agency with requests for permit extensions, modifications, revisions, or renewals without the prior written consent of the Engineer.

### **1.02 VARIATIONS WITH CODES, REGULATIONS AND STANDARDS**

- A. Nothing in the Drawings and specifications permits Work not conforming to codes, permits or regulations. Promptly submit written notice of the Engineer of observed variations or discrepancies between the Contract Documents and governing codes and regulations.
- B. Appropriate modifications to the Contract Documents will be made by Change Order to incorporate changes to Work resulting from code and/or regulatory requirements. Contractor assumes responsibility for Work contrary to such requirements if Work proceeds without notice.
- C. Contractor is not relieved from complying with requirements of Contract Documents which may exceed, but not conflict with requirements of governing codes.

### **1.03 COORDINATION WITH REGULATORY AGENCIES**

- A. Provide advance notification to Project Engineer to allow proper scheduling of inspection visits at proper stages of Work completion.

### **1.04 SUBMITTALS**

- A. Weekly Report

1. Water Quality Turbidity Monitoring

**PART 2 - PRODUCTS - NOT USED**

**PART 3 – EXECUTION - NOT USED**

**END OF SECTION**

**PART 1 - GENERAL**

**1.01 SECTION INCLUDES**

- A. Requirements relating to referenced standards.

**1.02 QUALITY ASSURANCE**

- A. For products or workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Conform to reference standard of date of issue specified in this section, except where a specific date is established by applicable code.
- C. Should specified reference standards conflict with Contract Documents, request clarification from the Engineer before proceeding.
- D. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of the Engineer shall be altered by the Contract Documents by mention or inference otherwise in any reference document.

**PART 2 - PRODUCTS - NOT USED**

**PART 3 - EXECUTION - NOT USED**

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 QUALITY CONTROL FOR COMPLIANCE:**

- A. All work described in the Contract Documents must be fully tested in accordance with applicable sections of these Specifications. The provisions and intent of the Contract, including the General Conditions, Supplementary Conditions and General Requirements, apply to this work as if specified in this Section.
- B. The Contractor shall perform such detailed examination, inspection and quality control and assurance of the Work as to ensure that the Work is progressing and is being completed in strict accordance with the Contract Documents. The Contractor shall plan and lay out all Work in advance of operations so as to coordinate all Work without delay or revision. The Contractor shall be responsible for inspection of portions of the Work already performed to determine that such portions are in proper condition to receive subsequent Work. Under no conditions shall a portion of Work proceed prior to preparatory work having been satisfactorily completed. The Contractor shall ensure that the responsible Subcontractor has carefully examined all preparatory work and has notified the Contractor (who shall promptly notify the Port in writing) of any defects or imperfections in preparatory work that will, in any way, affect completion of the Work.

### **1.02 QUALITY ASSURANCE - CONTROL OF INSTALLATION**

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Engineer before proceeding.
- D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Perform Work by persons qualified to produce required and specified quality.
- F. Verify that field measurements are as indicated on shop Drawings or as instructed by the manufacturer.
- G. Secure Products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, or disfigurement.

### **1.03 TOLERANCES**

- A. Monitor fabrication and installation tolerance control of Products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Engineer before proceeding.
- C. Adjust Products to appropriate dimensions; position before securing Products in place.

### **1.04 REFERENCES AND STANDARDS**

- A. For Products or workmanship specified by association, trade, or other consensus standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.

- B. Conform to reference standard by date of issue current on date of Contract Documents, except where a specific date is established by code.
- C. Obtain copies of standards where required by product specification sections.
- D. Neither the contractual relationships, duties or responsibilities of the parties in Contract, nor those of the Engineer, shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

#### 1.05 TESTING SERVICES

- A. Tests, inspections and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules and regulations or lawful orders of public authorities.
  - 1. Neither observations by an inspector retained by the Port, the presence or absence of such inspector at the site, nor inspections, tests, or approvals by others, shall relieve the Contractor from any requirement of the Contract Documents, nor is any such inspector authorized to change any term or condition of the Contract Documents.
- B. Necessary materials testing shall be performed by an independent testing laboratory during the execution of the Work and paid for by the Port of Tacoma, unless otherwise specified. Access to the area necessary to perform the testing and/or to secure the material for testing, shall be provided by the Contractor.
- C. Testing does not relieve Contractor to perform work to contract requirements.
- D. Re-testing required because of non-conformance to specified requirements shall be performed by the same independent firm. Payment for re-testing will be charged to the Contractor by deducting testing charges from the Contract Sum.
- E. Material testing for initial material approval will be performed by an independent, certified laboratory and paid for by the Contractor. These tests must be dated within six (6) months of the submittal date.
- F. Subsequent sampling and testing, required as the work progresses to ensure continual control of materials and compliance with all requirements of the Contract documents, shall be the responsibility of the Port, except as required by other sections of these Specifications.

#### **PART 2 - PRODUCTS - NOT USED**

#### **PART 3 - EXECUTION - NOT USED**

**END OF SECTION**

**PART 1 - GENERAL**

**1.01 SECTION INCLUDES**

- A. Temporary utilities.
- B. Temporary telecommunications services.
- C. Temporary sanitary facilities.

**1.02 TEMPORARY UTILITIES**

- A. Provide and pay for all electrical power, lighting, water, heating and cooling, and ventilation required for construction purposes.

**1.03 TELECOMMUNICATIONS SERVICES**

- A. Provide, maintain, and pay for telecommunications services to field office at time of project mobilization.

**1.04 TEMPORARY SANITARY FACILITIES**

- A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
- B. Maintain daily in clean and sanitary condition.
- C. At end of construction, return facilities to same or better condition as originally found.

**1.05 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS**

- A. Clean and repair damage caused by installation or use of temporary work.
- B. Restore existing facilities used during construction to original condition.
- C. Restore new permanent facilities used during construction to specified condition.

**PART 2 - PRODUCTS - NOT USED**

**PART 3 - EXECUTION - NOT USED**

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 SECTION INCLUDES**

- A. Access roads.
- B. Parking.
- C. Construction parking controls.
- D. Haul routes.
- E. Maintenance.
- F. Removal, repair.
- G. Mud from site vehicles.

## **PART 2 - PRODUCTS**

## **PART 3 - EXECUTION**

### **3.01 PREPARATION**

- A. Clear areas, provide surface and storm drainage of road, parking, area premises, and adjacent areas.

### **3.02 ACCESS TO SITE**

- A. Contractor shall conduct all business through the gate assigned by the Engineer.
  - 1. The Contractor may be required to relocate entry and related work areas as required by Port Operations.
- B. Provide unimpeded access for emergency vehicles. Maintain 20 foot (6 m) width driveways with turning space between and around combustible materials.
- C. Provide and maintain access to fire hydrants free of obstructions.

### **3.03 PARKING**

- A. All Contractor's employee cars and work vehicles will be parked on-site as designated by the Engineer.

### **3.04 CONSTRUCTION PARKING CONTROL**

- A. Control vehicular parking to prevent interference with public traffic and parking, access by emergency vehicles, and Port operations.
- B. Prevent parking on or adjacent to access roads or in non-designated areas.

### **3.05 HAUL ROUTES**

- A. Confine construction traffic to designated haul routes.
- B. Provide traffic control at critical areas of haul routes to regulate traffic, to minimize interference with public traffic.

### **3.06 MAINTENANCE**

- A. Maintain traffic and parking areas in a sound condition free of excavated material, construction equipment, Products, mud, snow, and ice.



- B. Maintain existing paved areas used for construction; promptly repair breaks, potholes, low areas, standing water, and other deficiencies, to maintain paving and drainage in original, or specified, condition.

### 3.07 REMOVAL, REPAIR

- A. Repair existing facilities damaged by use, to original condition.
- B. Repair damage caused by installation.

### 3.08 PUBLIC STREET AND ONSITE ROADWAY CLEANING

- A. The Contractor shall be responsible for preventing dirt and dust escaping from trucks and other vehicles operating on or departing the project site by sweeping, covering dusty loads, washing truck tires and all other reasonable methods.
- B. When trucks and other equipment are operating on paved public streets and site roadways/paved surfaces, the Contractor will be required to clean said streets, roadways and other paved surfaces at least daily, and at other times if required by the Engineer.
- C. In the event that the above requirements are violated and no action is taken by the Contractor after notification of infraction by the Engineer, the Port reserves the right to have the streets, roadways and other paved surfaces in question cleaned by others and the expense of the operation charged to the Contractor.

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 WORK DESCRIPTION**

- A. The Work shall consist of planning, installing, inspecting, maintaining and removing Temporary Erosion and Sediment Control (TESC) Best Management Practices (BMPs) to prevent pollution of air and water, and to control, respond to, and dispose of eroded sediment and turbid water during the term of the Contract.
- B. These TESC requirements shall apply to all areas associated with the Work including but not limited to the following:
  - 1. Work areas
  - 2. Equipment and material storage areas
  - 3. Staging areas
  - 4. Stockpiles
  - 5. Discharge points within or adjacent to the work areas that are impacted by stormwater runoff from the site.
- C. Acceptance of TESC plans does not constitute an approval of permanent Work or drainage design (e.g., size and location of roads, pipes, restrictors, channels, retention facilities, utilities, etc.).
- D. Contractor shall read and conform to requirements set forth in Ecology's Phase I Municipal Stormwater Permit.

### **1.02 REFERENCES**

- A. The rules, requirements, and regulations that apply to this Work include, but are not necessarily limited to the following:
  - 1. Washington Department of Ecology, "Stormwater Management Manual for Western Washington," 2012.
  - 2. Washington Department of Ecology, "Phase I Municipal Stormwater Permit", 2013.
  - 3. City of Tacoma, "Surface Water Management Manual," Tacoma Public Works, Environmental Services, February 2012.

### **1.03 SUBMITTALS**

- A. A Construction Stormwater Pollution Prevention Plan (SWPPP) per the requirements in Section 3.02 of this section.
- B. Safety Data Sheet (SDS) for any dust palliative product.

### **1.04 AUTHORITY OF ENGINEER**

- A. Engineer has the authority to limit the surface area of erodible earth material exposed by clearing and grubbing, excavation, borrow and fill operations, as determined by analysis of project conditions; and to direct Contractor to provide immediate permanent or temporary pollution control measures to minimize contamination of adjacent streams or other watercourses, lakes, ponds, and other areas of water impoundment.
- B. In the event that areas adjacent to the work area are suffering degradation due to erosion, sediment deposit, water flows, or other causes, the Engineer may stop construction activities until Contractor rectifies the situation.

## **PART 2 - PRODUCTS**

### **2.01 DUST CONTROL**

- A. Dust palliative for dust control proposed by the Contractor and approved by the Engineer.

## **PART 3 - EXECUTION**

### **3.01 GENERAL**

- A. In the event of conflict between these requirements and pollution control laws, rules, or regulations of other federal, state, or local agencies, the more restrictive laws, rules, or regulations shall apply as determined by the Engineer.
- B. Contractor shall be solely responsible for all BMP modifications and upgrades to comply with the requirements of this Section, at no additional cost to the Port.
- C. Contractor shall be solely responsible for any damages and fines incurred because of Contractor, subcontractor, or supplier actions in implementing the requirements of this Section.
- D. Contractor shall be solely responsible for schedule impacts incurred because of Contractor, subcontractor, or supplier actions in implementing the requirements of this Section.

### **3.02 TEMPORARY EROSION AND SEDIMENT CONTROL DEVELOPMENT**

- A. Contractor shall prepare and submit a site-specific SWPPP prior to initiating any ground disturbing activities.
  - 1. The SWPPP shall describe the proposed construction activities and all Temporary and Permanent Erosion and Sediment Control measures, pollution prevention measures, inspection/monitoring activities, and recordkeeping that will be implemented during the proposed construction project.
  - 2. The SWPPP shall consist of planning, installing, inspecting, maintaining, and removing TESC BMPs per Ecology's Volume II of the Stormwater Management Manual for Western Washington (2012). The BMPs are the minimum required to prevent pollution of air and water, to control peak volumetric flow rates and velocity of stormwater, and to control, respond to, and dispose of eroded sediment and turbid water during the term of the Contract
  - 3. A SWPPP template is available to the Contractor for this purpose. The template was prepared by the Port to meet part of the National Pollution Discharge Elimination System (NPDES) stormwater permit requirements for the project. Contractor may use the applicable Port template to prepare the project SWPPP or prepare their own SWPPP. If the Contractor elects to prepare their own SWPPP, it must meet or exceed the control measures required by the Ecology (reference Ecology's Stormwater Management Manual for Western Washington, 2012).
  - 4. Because this Project will disturb less than 1 acre of land, the Port's short form template will meet the project SWPPP requirements. The SWPPP short form template is attached to the end of this Section.
- B. The Contractor shall develop project-specific TESC BMPs and incorporate them into the SWPPP. The Contractor shall address the following issues as part of developing and implementing the BMPs.
  - 1. TESC BMPs must meet the requirements in Ecology's Volume II of the Stormwater Management Manual for Western Washington (2012)

2. TESC notes and details shown in the Drawings and the information in this Section of these Specifications are minimum requirements for a TESC Plan. Contractor shall develop and submit a TESC Plan specific to the project and means and methods prior to commencing construction activities and update the TESC Plan as needed for the duration of the project.
3. During the construction period the Contractor shall, at no additional cost to the Port, upgrade TESC measures as needed for storm events, modify TESC measures for changing site conditions (such as relocation of ditches and silt fences, etc.), and update the SWPPP to document all modifications made.

### 3.03 TEMPORARY EROSION AND SEDIMENT CONTROL IMPLEMENTATION

- A. Contractor is responsible for implementing and updating the SWPPP including TESC BMPs.
  1. Contractor shall inspect TESC measures daily and maintain these measures to ensure continued proper functioning during the project period.
  2. Contractor shall upgrade and/or maintain TESC measures as needed, based on Contractor means and methods, work sequencing, and for storm events, at no additional cost to the Port. Contractor shall modify these measures for changing site conditions and update the SWPPP to document all modifications made.
- B. Catch basins must be cleaned when the depth of debris reaches 30% of the sump depth or the debris surface is six (6) inches below the outlet pipe. All catch basins, manholes, and conveyance lines, if present, shall be cleaned by the Contractor at the completion of the project. The cleaning process shall not flush sediment-laden water into any downstream system.
- C. Contractor shall ensure that water, or a dust palliative and a dispensing methodology is available for project use. It is the responsibility of the Contractor to develop and adhere to appropriate safety measures pertaining to the palliative use. This also includes ensuring a dispensing subcontractor develops and adheres to the appropriate safety measures, if a dispensing subcontractor is used.
- D. Any areas of exposed soils, including embankments, which will not be disturbed for two days during the wet season (October 1 - April 30) or seven days during the dry season (May 1 - September 30), shall immediately be stabilized by Contractor with an Ecology-approved TESC measure (seeding, mulching, plastic covering, etc.).
- E. TESC measures in an inactive area shall be inspected and maintained by the Contractor until the area is permanently stabilized.
- F. In the event that additional temporary erosion and pollution control measures are required due to the Contractor's negligence, carelessness, or failure to install permanent controls as a part of the Work as scheduled or as ordered by the Engineer, such work shall be performed by the Contractor at its own expense.
- G. Contractor shall remove all TESC facilities, install permanent site surfacing improvements, permanent BMPs with minimal disturbance and shall clean stormwater facilities prior to Work completion.

**END OF SECTION**

## **CONSTRUCTION SWPPP SHORT FORM**

The threshold for using the Port of Tacoma's (Port) short form is a project that proposes to clear or disturb less than one acre of land. Projects falling within this threshold may use this short form instead of preparing a professionally designed Construction Stormwater Pollution Prevention Plan (SWPPP). If project disturbance quantities exceed this threshold, you must prepare of formal Construction SWPPP as part of your submittal package. If your project is within the threshold and includes—or may affect—a critical area, please contact the Port to determine if the SWPPP short form may be used.

# CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN SHORT FORM

Project Name:

Address:

Contact/Owner:

Phone:

Erosion Control Supervisor:

Phone:

Cell:

Pager:

Emergency (After hours) Contact:

Phone:

Permit No.:

Parcel No.:

## **Required Submittals**

A Construction SWPPP consists of both a project narrative and a site plan. The project narrative describes existing conditions on the site, the proposed conditions, and how construction site runoff will be managed until final site stabilization is achieved. Any additional relevant information should be included in the project narrative. All Best Management Practices (BMPs) that will be utilized onsite must be included as part of the project narrative and provided (electronically or hard copy) as part of the submittal package. If additional BMPs beyond those included in the Washington Department of Ecology's (Ecology) Western Washington Stormwater Management Manual (Ecology SWMM) or the City of Tacoma's (City) Stormwater Management Manual (City SWMM) are proposed to be used, a narrative and appropriate details describing the BMP (its function, installation method, and maintenance activities) will be required.

The site plan is a drawing which shows the location of the proposed BMPs to control erosion and sedimentation during and after construction activities.

---

**PROJECT NARRATIVE**

The Construction SWPPP Short Form narrative must be completed at part of the submittal package. Any information described, as part of the narrative, should also be shown on the site plan.

**Note:** From October 1 through April 30, clearing, grading, and other soil disturbing activities shall only be permitted by special authorization from the Port.

**A. Project Description (Check all that apply)**

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> New Structure | <input type="checkbox"/> Building Addition | <input type="checkbox"/> Grading/Excavation |
| <input type="checkbox"/> Paving        | <input type="checkbox"/> Utilities         | <input type="checkbox"/> Other:             |

1. Total project area (square feet)
2. Total proposed impervious area (square feet)
3. Total existing impervious area (square feet)
4. Total proposed area to be disturbed (square feet)
5. Total volume of cut/fill (cubic yards)

Additional Project Information:

---

---

---

**B. Existing Site Conditions (Check all that apply)**

1. Describe the existing vegetation on the site. (Check all that apply)  
☐ Forest   ☐ Pasture/field grass   ☐ Pavement   ☐ Landscaping   ☐ Brush  
☐ Trees   ☐ Other:
2. Describe how surface water (stormwater) drainage flows across/from the site. (Check all that apply)  
☐ Sheet Flow   ☐ Gutter   ☐ Catch Basin   ☐ Ditch/Swale   ☐ Storm Sewer  
☐ Stream   ☐ Other:
3. Describe any unusual site condition(s) or other features of note.  
☐ Steep Grades   ☐ Large depression   ☐ Underground tanks   ☐ Springs  
☐ Easements   ☐ Existing structures   ☐ Existing utilities   ☐ Other:

### C. Adjacent Areas (Check all that apply)

1. Check any/all adjacent areas that may be affected by site disturbance and fully describe below in item 2:

☐ Streams\*      ☐ Lakes\*      ☐ Wetlands\*      ☐ Steep slopes\*  
☐ Residential Areas      ☐ Roads      ☐ Ditches, pipes, culverts      ☐ Other:

*\* If the site is on or adjacent to a critical area (e.g., waterbody), the Port may require additional information, engineering, and other permits to be submitted with this short form.*

2. Describe how and where surface water enters the site from properties located upstream:

---

---

---

---

---

3. Describe the downstream drainage path from the site to the receiving body of water (minimum distance of 0.25 mile [1320 feet]). (E.g., water flows from the site into a curb-line, then to a catch basin at the intersection of X and Y streets. A 10-inch pipe system conveys water another 1000 feet to a wetland.) Include information on the condition of the drainage structures.

---

---

---

---

---

### D. Soils (Check all that apply)

The intent of this section is to identify when additional soils information may be required for applicants using this short form. There are other site-specific issues that may necessitate a soils investigation or more extensive erosion control practices. The Port will determine these situations on a case-by-case basis as part of their review.

1. Does the project propose infiltration? Infiltration systems require prior Port approval.

☐ Yes      ☐ No

2. Does the project propose construction on or near steep slopes (15% or greater)?

☐ Yes      ☐ No



If infiltration is proposed for the site or steep slopes (15% or greater) have been identified, the Port will require soils information as part of project design. The applicant must contact a soil professional or civil engineer that specializes in soil analysis and perform an in-depth soils investigation. If the Yes box is checked for either question, the Port may not permit the use of this short form.

## **E. Construction Sequencing/Phasing**

1. Construction sequence: the standard construction sequence is as follows:
  - Mark clearing/grading limits.
  - Install initial erosion control Best Management Practices (BMPs) (e.g., construction entrance, silt fence, catch basin inserts, etc.).
  - Clear, grade, and fill project site as outlined in the site plan while implementing and maintaining proper temporary erosion and sediment control BMPs simultaneously.
  - Install permanent erosion protection as described in the specifications (e.g., impervious surfaces, landscaping, etc.).
  - Remove temporary erosion control methods as permitted. Do not remove temporary erosion control until permanent erosion protection is fully established.

List any changes from the standard construction sequence outlined above:

---

---

---

---

2. Construction phasing: if construction is going to occur in separate phases, please describe:

---

---

---

---

---

**F. Construction Schedule**

1. Provide a proposed construction schedule (dates construction starts and ends, and dates for any construction phasing.)

**Start Date:**

**End Date:**

Interim Phasing Dates:

Wet Season Construction Activities: Wet season occurs from October 1 to April 30. Please describe construction activities that will occur during this time period.

---

---

**Note:** Additional erosion control methods may be required during periods of increased surface water runoff.

**2. Site plan** (see Figure 1, page 6)

A site plan, to scale, must be included with this checklist that shows the following items:

- ☐ a. Address, Parcel Number, Permit Number, and Street Names
- ☐ b. North Arrow
- ☐ c. Indicate boundaries of existing vegetation (e.g., tree lines, grassy areas, pasture areas, fields, etc.)
- ☐ d. Identify any onsite or adjacent critical areas and associated buffers (e.g., wetlands, steep slopes, streams, etc.).
- ☐ e. Identify any FEMA base flood boundaries and Shoreline Management boundaries.
- ☐ f. Show existing and proposed contours.
- ☐ g. Delineate areas that are to be cleared and/or graded.
- ☐ h. Show all cut and fill slopes, indicating top and bottom of slope catch lines.
- ☐ i. Show locations where upstream run-on enters the site and locations where runoff leaves the site.
- ☐ j. Indicate existing surface water flow direction(s).
- ☐ k. Label final grade contour and indicate proposed surface water flow direction and surface water conveyance systems (e.g., pipes, catch basins, ditches, etc.).
- ☐ l. Show grades, dimensions, and direction of flow in all (existing and proposed) ditches, swales, culverts, and pipes.
- ☐ m. Indicate locations and outlets of any dewatering systems (usually to sediment trap).
- ☐ n. Identify and locate all erosion control methods to be used during and after construction.

**ONSITE FIELD VERIFICATION OF ACTUAL CONDITIONS IS REQUIRED.**

**Figure 1.** (to be worked out with Engineering Dept.)

## GUIDELINES FOR EROSION CONTROL ELEMENTS

**This SWPPP must contain the 12 required elements, as required by Ecology. Check off each element as it is addressed in the SWPPP short form and/or on your site plan.**

- ☐ 1. Mark Clearing Limits
- ☐ 2. Establish Construction Access
- ☐ 3. Control Flow Rates
- ☐ 4. Install Sediment Controls
- ☐ 5. Stabilize Soils
- ☐ 6. Protect Slopes
- ☐ 7. Protect Drain Inlets
- ☐ 8. Stabilize Channels and Outlets
- ☐ 9. Control Pollutants
- ☐ 10. Control Dewatering
- ☐ 11. Maintain BMPs
- ☐ 12. Manage the Project

The following is a brief description of each of the 12 required elements of a SWPPP. If an element does not apply to the proposed project site, please describe why the element does not apply. Applicable BMPs are listed with each element and in Table 1. Please note that this list is not a comprehensive list of BMPs available for small construction projects, but erosion and sediment control techniques most pertinent to small construction sites are included here. More detailed information on construction BMPs can be found in Ecology's SWMM Volume II and the City's SWMM Volume II (Ecology 2005; City of Tacoma 2012). Please provide hard copies of the BMPs that will be used for the project and include as part of this Construction SWPPP. BMPs that may be used if needed can be noted as being contingent in the event additional erosion control is needed. Describe any additional BMPs that will be utilized onsite and add them to the SWPPP short form.

For phased construction projects, clearly indicate erosion control methods to be used for each phase of construction.

*Element #1 – Mark Clearing Limits*

All construction projects must clearly mark any clearing limits, sensitive areas and their buffers prior to beginning any land disturbing activities, including clearing and grading. Clearly mark the limits both in the field and on the site plans. Limits shall be marked in such a way that any trees or vegetation that is to remain will not be harmed.

Applicable BMPs include:

- BMP C101: Preserving Natural Vegetation
- BMP C102: Buffer Zones
- BMP C103: High Visibility Plastic or Metal Fence
- BMP C104: Stake and Wire Fence

☐ The BMP(s) being proposed to meet this element are:

---



---

**OR**

☐ This element is not required for this project because:

---



---



---



---

*Element #2 – Establish Construction Access*

All construction projects subject to vehicular traffic shall provide a means of preventing vehicle “tracking” soil from the site onto streets or neighboring properties. Limit vehicle traffic on- and off-site to one route if possible. All access points shall be stabilized with a rock pad construction entrance or other Port-approved BMP. The applicant should consider placing the entrance in the area for future driveway(s), as it may be possible to use the rock as a driveway base material. The entrance(s) must be inspected weekly, at a minimum, to ensure no excess sediment buildup or missing rock.

Applicable BMPs include:

- BMP C105: Stabilized Construction Entrance
- BMP C106: Wheel Wash
- BMP C107: Construction Road/Parking Area Stabilization

☐ The BMP(s) being proposed to meet this element are:

---



---

**OR**

☐ This element is not required for this project because:

---



---



---



---

*Element #3 – Control Flow Rates*

Protect properties and waterways downstream of the project site from erosion due to increases in volume, velocity, and peak flow of stormwater runoff from the project site.

Permanent infiltration facilities shall not be used for flow control during construction unless specifically approved by the Environmental Department. Sediment traps can provide flow control for small sites by allowing water to pool and allowing sediment to settle out of the water.

Applicable BMPs include:

- BMP C207: Check Dams
- BMP C240: Sediment Trap

☐ The BMP(s) being proposed to meet this element are:

---



---

**OR**

☐ This element is not required for this project because:

---



---



---



---

#### *Element 4 – Install Sediment Controls*

Surface water runoff from disturbed areas must pass through an appropriate sediment removal device prior to leaving a construction site or discharging into a waterbody. Sediment barriers are typically used to slow stormwater sheet flow and allow the sediment to settle out behind the barrier.

Sediment controls must be installed/constructed prior to site grading.

Applicable BMPs include:

- BMP C208: Triangular Silt Dike
- BMP C232: Gravel Filter Berm
- BMP C233: Silt Fence
- BMP C235: Straw Wattles

☐ The BMP(s) being proposed to meet this element are:

---



---

**OR**

☐ This element is not required for this project because:

---



---



---



---

#### *Element #5 – Stabilize Soils*

Stabilize exposed and unworked soils by applying BMPs that protect the soils from raindrop impact, flowing water, and wind.

From October 1 through April 30, no soils shall remain exposed or unworked for more than 2 days. From May 1 to September 30, no soils shall remain exposed or unworked for more than 7 days. This applies to all soils whether at final grade or not.

Applicable BMPs include:

- BMP C120: Temporary and Permanent Seeding
- BMP C121: Mulching
- BMP C122: Nets and Blankets
- BMP C123: Plastic Covering
- BMP C140: Dust Control

☐ The BMP(s) being proposed to meet this element are:



**OR**

☐ This element is not required for this project because:

---

---

---

---

*Element #6 – Protect Slopes*

Protect slopes by diverting water at the top of the slope. Reduce slope velocities by minimizing the continuous length of the slope.

Applicable BMPs include:

- BMP C200: Interceptor Dike and Swale
- BMP C204: Pipe Slope Drains
- BMP C207: Check Dams

☐ The BMP(s) being proposed to meet this element are:

---

---

**OR**

☐ This element is not required for this project because:

---

---

---

---

*Element #7 – Protect Drain Inlets*

All operable storm drain inlets must be protected during construction so that stormwater runoff does not enter the conveyance system without first being filtered or treated to remove sediment. Install catch basin protection on all catch basins within 500 feet downstream of the project.

Applicable BMPs include:

- BMP C220: Storm Drain Inlet Protection

☐ The BMP(s) being proposed to meet this element are:

---



---

**OR**

☐ This element is not required for this project because:

---



---



---



---

*Element #8 – Stabilize Channels and Outlets*

Stabilize all temporary onsite conveyance channels. Provide stabilization to prevent erosion of outlets, adjacent stream banks, slopes, and downstream reaches at the conveyance system outlets.

Applicable BMPs include:

- BMP C202: Channel Lining
- BMP C209: Outlet Protection

☐ The BMP(s) being proposed to meet this element are:

---



---

**OR**

☐ This element is not required for this project because:

---



---



---



---

*Element #9 – Control Pollutants*

Handle and dispose of all pollutants, including demolition debris and other solid wastes in a manner that does not cause stormwater contamination. Provide cover and containment for all

chemicals, liquid products (including paint), petroleum products, and other materials. Handle all concrete and concrete waste appropriately.

Applicable BMPs include:

- BMP C150: Materials on Hand
- BMP C151: Concrete Handling
- BMP C152: Sawcutting and Surface Pollution Prevention
- BMP C153: Material Delivery, Storage and Containment

☐ The BMP(s) being proposed to meet this element are:

---



---

**OR**

☐ This element is not required for this project because:

---



---



---



---

*Element #10 – Control Dewatering*

Clean, non-turbid dewatering water, such as groundwater, can be discharged to the stormwater system provided the dewatering flow does not cause erosion or flooding of receiving waters.

Applicable BMPs include:

- BMP C150: Materials on Hand

☐ The BMP(s) being proposed to meet this element are:

---



---

**OR**

☐ This element is not required for this project because:

---



---

*Element #11 – Maintain BMPs*

Maintain and repair temporary erosion and sediment control BMPs as needed. Inspect all BMPs at least weekly and after every storm event.

Remove all temporary erosion and sediment control BMPs within 30 days after final site stabilization or if the BMP is no longer needed. Any sediment trapped during construction activities should be removed or stabilized onsite. No sediment shall be discharged into the stormwater drainage system or any natural conveyance system (e.g., streams).

Applicable BMPs include:

- BMP C160: Certified Erosion and Sediment Control Lead

☐ The BMP(s) being proposed to meet this element are:

---



---

**OR**

☐ This element is not required for this project because:

---



---



---



---

*Element #12 – Manage the Project*

Phase development projects to prevent soil erosion and the transport of sediment from the project site during construction. Coordinate all work prior initial construction with subcontractors and other utilities to ensure no areas are worked prematurely.\

A designated erosion and sediment control person is required for all construction projects. This person is responsible for ensuring that the project's erosion and sediment control BMPs are appropriate for the site and are functioning properly. They are also responsible for updating the SWPPP as necessary as site conditions warrant. They must be available 24 hours a day to ensure compliance.

Applicable BMPs include:

- BMP C160: Certified Erosion and Sediment Control Lead
- BMP C162: Scheduling
- BMP C180: Small Project Construction Stormwater Pollution Prevention

☐ The BMP(s) being proposed to meet this element are:

---

---

**OR**

☐ This element is not required for this project because:

---

---

---

---

**Table 1. Applicable BMPs for the 12 Elements of a SWPPP**

<b>Element #1 – Mark Clearing Limits</b>		
BMP C101	Preserving Natural Vegetation	
BMP C102	Buffer Zones	
BMP C103	High Visibility Plastic and Wire Fence	
BMP C104	Stake and Wire Fence	
<b>Element #2 – Establish Construction Entrance</b>		
BMP C105	Stabilized Construction Entrance	
BMP C106	Wheel Wash	
BMP C107	Construction Road/Parking Area Stabilization	
<b>Element #3 – Control Flow Rates</b>		
BMP C207	Check Dams	
BMP C240	Sediment Trap	
<b>Element #4 – Install Sediment Controls</b>		
BMP C208	Triangular Silt Trap	
BMP C232	Gravel Filter Berm	
BMP C233	Silt Fence	
BMP C235	Straw Wattles	
<b>Element #5 – Stabilize Soils</b>		
BMP C120	Temporary and Permanent Seeding	
BMP C121	Mulching	
BMP C122	Nets and Blankets	
BMP C123	Plastic Covering	
BMP C140	Dust Control	
<b>Element #6 – Protect Slopes</b>		
BMP C200	Interceptor Dike and Swale	
BMP C204	Pipe Slope Drains	
BMP C207	Check Dams	
<b>Element #7 – Protect Drain Inlets</b>		
BMP C220	Storm Drain Inlet Protection	
<b>Element #8 – Stabilize Channels and Outlets</b>		
BMP C202	Channel Lining	
BMP C209	Outlet Protection	
<b>Element #9 – Control Pollutants</b>		
BMP C150	Materials on Hand	

Element #9 – Control Pollutants, cont.		
BMP C151	Concrete Handling	
BMP C152	Sawcutting and Surfacing Pollution Prevention	
BMP C153	Materials, Delivery, Storage and Containment	
Element #10 – Control Dewatering		
BMP C150	Materials on Hand	
Element #11 – Maintain BMPs		
BMP C160	Certified Erosion and Sediment Control Lead	
Element #12 – Manage the Project		
BMP C160	Certified Erosion and Sediment Control Lead	
BMP C162	Scheduling	
BMP C180	Small Project Construction Stormwater Pollution Prevention	

## REFERENCES

City of Tacoma. 2012. Stormwater Management Manual 2012 Edition. Public Works/ Environmental Services, Maintenance Division, Tacoma, Washington.

Washington State Department of Ecology (Ecology). 2005. Stormwater Management Manual for Western Washington. Water Quality Program, Lacey, Washington.

## **PART 1 - GENERAL**

### **1.01 SUBMITTALS**

- A. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- B. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

## **PART 2 - PRODUCTS**

### **2.01 NEW PRODUCTS**

- A. Provide new products unless specifically required or permitted by the Contract Documents.

### **2.02 PRODUCT OPTIONS**

- A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.
- C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

## **PART 3 - EXECUTION**

### **3.01 TRANSPORTATION AND HANDLING**

- A. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
- B. Transport and handle products in accordance with manufacturer's instructions.
- C. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
- D. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
- E. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.
- F. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

### **3.02 STORAGE AND PROTECTION**

- A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication.
- B. Store and protect products in accordance with manufacturers' instructions.
- C. Store with seals and labels intact and legible.
- D. Store sensitive products in weather tight, climate controlled, enclosures in an environment favorable to product.
- E. For exterior storage of fabricated products, place on sloped supports above ground.



- F. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
- G. Prevent contact with material that may cause corrosion, discoloration, or staining.
- H. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- I. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 SECTION INCLUDES**

- A. Examination, preparation, and general installation procedures.
- B. Cutting and patching.

### **1.02 SUBMITTALS**

- A. See Section 01 33 00 - Submittal Procedures
- B. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
  - 1. Structural integrity of any element of Project.
  - 2. Integrity of weather exposed or moisture resistant element.
  - 3. Efficiency, maintenance, or safety of any operational element.
  - 4. Visual qualities of sight exposed elements.
  - 5. Work of the Port or separate Contractor.
- C. Project As-Built Documents: Accurately record actual locations of capped and active utilities.

## **PART 2 - PRODUCTS**

### **2.01 PATCHING MATERIALS**

- A. New Materials: As specified in product sections; match existing products and work for patching and extending work.
- B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.

## **PART 3 - EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
- B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
- C. Examine and verify specific conditions described in individual specification sections.
- D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
- E. Verify that utility services are available, of the correct characteristics, and in the correct locations.
- F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

### **3.02 PREPARATION**

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.

- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

### 3.03 GENERAL INSTALLATION REQUIREMENTS

- A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.
- B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
- C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
- D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
- E. Make neat transitions between different surfaces, maintaining texture and appearance.

### 3.04 CUTTING AND PATCHING

- A. Whenever possible, execute the work by methods that avoid cutting or patching.
- B. Perform whatever cutting and patching is necessary to:
  - 1. Complete the work.
  - 2. Fit products together to integrate with other work.
  - 3. Provide openings for penetration of mechanical, electrical, and other services.
  - 4. Match work that has been cut to adjacent work.
  - 5. Repair areas adjacent to cuts to required condition.
  - 6. Repair new work damaged by subsequent work.
  - 7. Remove samples of installed work for testing when requested.
  - 8. Remove and replace defective and non-conforming work.
- C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.
- D. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.
- E. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.
- F. Restore work with new products in accordance with requirements of Contract Documents.
- G. Patching:
  - 1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
  - 2. Match color, texture, and appearance.
  - 3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

### 3.05 PROTECTION OF INSTALLED WORK

- A. Protect installed work from damage by construction operations.
- B. Provide special protection where specified in individual specification sections.
- C. Remove protective coverings when no longer needed; reuse or recycle plastic coverings if possible.

**END OF SECTION**

## **PART 1 GENERAL**

### **1.01 SUMMARY**

- A. This section includes construction waste management requirements.

### **1.02 DEFINITIONS**

- A. Co-mingled or Off-site Separation: Collecting all material types into a single bin or mixed collection system and separating the waste materials into recyclable material types at an off-site facility.
- B. Construction, Demolition and Land-Clearing (CDL) Waste: Includes all nonhazardous solid wastes resulting from construction, remodeling, alterations, repair, demolition, and land clearing. Includes material that is recycled, reused, salvaged or disposed as garbage. This also includes uncontaminated soils that are designated as geotechnically unsuitable or excess excavation.
- C. Hazardous/Dangerous Waste: As defined by Chapter 70.105.010 Revised Code of Washington and 40 Code of Federal Register 261 and by Washington Administrative Code 173-303.
- D. Proper Disposal: As defined by the jurisdiction receiving the waste.
- E. Recyclable Materials: Products and materials that can be recovered and remanufactured into new products.
- F. Recycling: The process of sorting, cleaning, treating and reconstituting materials for the purpose of using the material in the manufacture of a new product. Can be conducted on-site (as in the grinding of concrete).
- G. Recycling Facility: An operation that is permitted to accept materials for the purpose of processing the materials into an altered form for the manufacture of a new product.
- H. Salvage for Reuse: Existing usable product or material that can be saved and reused in some manner on the project site or other projects off-site.
- I. Salvage for Resale: Existing usable product or material that can be saved and removed intact (as is) from the project site to another site for resale to others without remanufacturing.
- J. Source-Separated Materials: Materials that are sorted at the site into separate containers for the purpose of reuse or recycling.
- K. Sources Separation: Sorting the recovered materials into specific material types with no, or a minimum amount of, contamination on site.
- L. Time-Based Separation: Collecting waste during each phase of construction or deconstruction that results in primarily one major type of recovered material. The material is removed before it becomes mixed with the material from the next phase of construction.
- M. Garbage: Product or material typically considered to be trash or debris that is unable to be salvaged for resale, salvaged and reused, returned, or recycled.

### **1.03 SUBMITTALS**

- A. Waste Management Plan
- B. Waste Management Final Report

#### 1.04 PERFORMANCE GOALS

- A. General: Divert CDL waste to the maximum extent practicable from the landfill by one or a combination of the following activities:
  - 1. Salvage
  - 2. Reuse
  - 3. Source separated CDL recycling
  - 4. Co-mingled CDL recycling
- B. CDL waste materials that can be salvaged, resold, reused or recycled, include, but are not limited to the following:
  - 1. Clean dimensional wood, pallet wood, plywood, OSB, and particleboard
  - 2. Asphalt
  - 3. Concrete and concrete masonry units
  - 4. Ferrous and non-ferrous metals
  - 5. Field office waste paper, aluminum cans, glass, plastic, and cardboard
- C. Hazardous/Dangerous Wastes, contaminated soils and other hazardous materials such as paints, solvents, adhesives, batteries, and fluorescent light bulbs and ballasts shall be disposed of at applicable permitted facilities.

#### 1.05 WASTE MANAGEMENT PLAN

- A. Submit to the Engineer a Waste Management Plan narrative in accordance with these specifications. Provide a Waste Management Plan in a format as approved by the Engineer.
- B. The Waste Management Plan shall include the following:
  - 1. Name of designated Recycling Coordinator
  - 2. A list of waste materials that will be salvaged for resale, salvaged for reuse, recycled, and disposed.
  - 3. Identify waste handling methods to be used, including one or more of the following:
    - a. Method 1 - Contractor or subcontractor(s) hauls recyclable materials to an approved recycling facility.
    - b. Method 2 - Contracting with diversion/recycling hauler to haul recyclable material to an approved recycling or material recovery facility.
    - c. Method 3 - Recyclable material reuse on-site.
    - d. Method 4- Recyclable material salvage for resale.
  - 4. Identification of each recycling or material recovery facility to be utilized, including name, address and types of materials being recycled at each facility
  - 5. Description of the method to be employed in collecting, and handling, waste materials.
  - 6. Description of methods to communicate Waste Management Plan to personnel and subcontractors.

#### 1.06 WASTE MANAGEMENT FINAL REPORT

- A. Provide a Waste Management Final Report, in a format approved by the Engineer. The Waste Management Final Report shall list the following for the project:
  - 1. A record of each waste material type and quantity recycled, reused, salvaged, or disposed from the Project. Include total quantity of waste material removed from the site and hauled to a landfill.
  - 2. Percentage of total waste material generated that was recycled, reused, or salvaged.
- B. Quantities shall be reported by weight (tons) unless otherwise approved by the Engineer.
- C. Submit copies of manifests, weight tickets, recycling/disposal receipts or invoices, which validate the calculations or a signed certification of completeness and accuracy of the final quantities reported.

#### 1.07 QUALITY ASSURANCE

- A. Regulatory Requirements: The Contractor shall maintain compliance with all applicable Federal, State, or Local laws that apply to Construction Waste Management and material salvage, reuse, recycling and disposal.
- B. Disposal Sites, Recyclers and Waste Materials Processors: All facilities utilized for management of any materials covered under this specification must maintain all necessary permits as required by federal, state and local jurisdictions.

### **PART 2 - PRODUCTS - NOT USED**

### **PART 3 - EXECUTION**

#### 3.01 SOURCE-SEPARATED CDL RECYCLING

- A. Provide individual containers for separate types of CDL waste to be recycled, clearly labeled with a list of acceptable and unacceptable materials.

#### 3.02 CO-MINGLED CDL RECYCLING

- A. Provide containers for co-mingled CDL waste to be recycled, clearly labeled with a list of acceptable and unacceptable materials.

#### 3.03 LANDFILL

- A. Provide containers for CDL waste that is to be disposed of in a landfill clearly labeled as such.

#### 3.04 REMOVAL OF CDL WASTE FROM PROJECT SITE

- A. Transport CDL waste off Port's property and legally dispose of them.

**END OF SECTION**

## **PART 1 - GENERAL**

### **1.01 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

### **1.02 SUMMARY**

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
  - 1. Substantial Completion procedures
  - 2. Final completion procedures
  - 3. Warranties
  - 4. As-Built Drawings

### **1.03 ACTION SUBMITTALS**

- A. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.

### **1.04 PROJECT SUBMITTALS**

- A. Submittal of Project Warranties
- B. Record Drawings
  - 1. Miscellaneous Record Submittals: See other Specification Sections for miscellaneous recordkeeping requirements and submittals in connection with various construction activities.
- C. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

### **1.05 SUBSTANTIAL COMPLETION PROCEDURES**

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list) indicating the value of each item on the list and reasons why the Work is incomplete.
- B. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
  - 1. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
  - 2. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by the Contract Document or Engineer. Label with manufacturer's name and model number where applicable.
- C. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
  - 1. Complete final cleaning requirements



- D. Submit a written request for inspection to determine Substantial Completion a minimum of days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Engineer will either proceed with inspection or notify Contractor of unfulfilled requirements. Engineer will prepare the Notice of Substantial Completion after inspection or will notify Contractor of items, either on the Contractor's list or additional items identified by the Engineer, that must be completed or corrected before notice will be issued.
  - 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
  - 2. Results of completed inspection will form the basis of requirements for final completion.

#### 1.06 PUNCH LIST (LIST OF INCOMPLETE ITEMS)

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of Construction.
  - 1. Organize list of spaces in sequential order.
  - 2. Organize items applying to each space by major elements.

#### 1.07 FINAL COMPLETION PROCEDURES

- A. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete and submit the following:
  - 1. Submittal of all remaining items, including as-built documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, surveys, and similar final record information and all other submittals defined in the Contract Documents.
  - 2. List of Incomplete Items: Submit copy of Engineer's Substantial Completion inspection list of items to be completed or corrected (Punch List). Copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
- B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 3 days prior to date the work will be complete and ready for final inspection and tests. On receipt of request, the Engineer will either proceed with inspection or notify contractor of unfulfilled requirements.
  - 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

#### 1.08 FINAL ACCEPTANCE PROCEDURES

- A. Submittals Prior to Final Acceptance:
  - 1. Receipt and approval of application for final payment; due within seven (7) days of receipt of Final Completion by the Engineer.
  - 2. Execution of all Change Orders.
  - 3. Contractor's signed waiver and release of claims on the Engineer provided form.
  - 4. Contractor's submittal of list of all suppliers and subcontractors and the total amounts paid to each on the Engineer provided form;
  - 5. Contractor's submittal of a list of all subcontractors and suppliers requiring Affidavits of Wages paid on the Contract and certify that each of companies will submit an approved Affidavit of Wages paid to the Port within 30 days.

- B. The Engineer will issue the Final Acceptance Memo upon receipt of the required submittals.

## **PART 2 - PRODUCTS**

### **2.01 CONTRACTOR'S WARRANTY**

- A. The Contractor warrants the labor, materials and equipment delivered under the contract to be free from defects in design, material, or workmanship, and against damage caused prior to final inspection. Unless otherwise specified, this warranty extends for a period of one (1) year from the date of Substantial Completion.
1. Time of Submittal: Submit written warranties on request of Engineer for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit the Port's rights under warranty.
  2. Partial Occupancy: Submit properly executed warranties within 15 days of completion of designated portions of the Work that are completed and occupied or used by Port or Port tenants during construction.
  3. Submit Warranties to the Engineer as a submittal, as described in 01 33 00 – Submittal Procedures.
- B. In the event of equipment failure, during such time or in such a location that immediate repairs are mandatory, the Contractor shall respond promptly (within 48 hours), irrespective of day of the week. If the Contractor is not available, the Port will affect repairs. The Contractor shall then reimburse the Port for parts and labor necessary to correct deficiencies as defined within the warranty clause and time.

### **2.02 AS-BUILT DRAWINGS**

- A. Project As-Built Drawings: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised drawings as modifications are issued.
- B. Project As-Built Drawings shall be compiled by the Contractor and submitted to the Engineer for translation to the Record Drawings on a monthly basis.
1. The Project As-Built Drawings will be submitted on paper full-sized (ANSI D) copy.
  2. Drawings shall be kept current and shall be done at the time the material and equipment is installed. Annotations to the record documents shall be made with an erasable colored pencil conforming to the following color code:
    - a. Additions – Red
    - b. Deletions – Green
    - c. Comments – Blue
    - d. Dimensions – Graphite
  3. Project As-Built Drawings must be complete and accepted by the Engineer before Final Completion is issued.
  4. As-Built Drawings shall be in accordance with horizontal and vertical control as shown on the drawings.

### **PART 3 – EXECUTION**

#### **3.01 MAINTENANCE OF AS-BUILT DRAWINGS**

- A. The Contractor shall maintain at the Project site, in good order for ready reference by the Engineer, one complete copy of the Contract Documents, including Addenda, Change Orders, other documents issued by the Port, a current Progress Schedule, and approved Submittals. The Contractor shall also generate and keep on site all documents and reports required by applicable permits.
- B. The Contractor's As-Built Drawings shall be updated to record all changes made during construction. The location of all existing or new underground piping, valves and utilities, and obstructions located during the Work shall be appropriately marked until the Contractor incorporates the actual field dimensions and coordinates into the as-built drawings. The as-built drawings shall be updated at least weekly and before elements of the Work are covered or hidden from view. After the completion of the Work, the as-built drawings shall be provided to the Port.

**END OF SECTION**

PART 1 GENERAL

1.01 SCOPE

The extent and location of “Selective Demolition” work is indicated on the drawings. The drawings are provided for guidance only to indicate typical general construction features of the various types of structures to be demolished and are not to be construed as definitive or adequate to supplant the actual on-site inspection by the Contractor. Provide all labor, materials, tools, and equipment necessary to accomplish the work including daily removal of resulting rubbish and debris.

1.02 REFERENCE STANDARDS

The publications listed below form a part of this specification to the extent referenced. References shall be the latest edition available as of the date of the invitation to bid unless otherwise specified.

- A. American National Standards Institute (ANSI)
  - 1. ANSI A10.6 — Safety Requirements for Demolition Operations
- B. U.S. Department of Labor Occupational Safety & Health Administration (OSHA)
  - 1. OSHA Standard 1926.850(a) — Preparatory Operations
- C. U.S. Army Corps of Engineers (USACE)
  - 1. EM 385-1-1 — Safety, Safety and Health Requirements

1.03 GENERAL REQUIREMENTS

- A. In the interest of occupational safety and health, perform the work in accordance with ANSI A10.6 and USACE EM 385-1-1, Section 23, Demolition, and other applicable Sections.
- A. Coordinate all demolition activities with the Port.
- B. Follow applicable OSHA regulations.

1.04 SUBMITTALS

The following shall be submitted in accordance with Section 01 33 00, Submittal Procedures:

- A. Preconstruction Submittals
  - 1. The Contractor shall submit to the Port for approval a Demolition Plan that at a minimum addresses the following:
    - a. Work sequence and schedule. Include phased demolition requirements consistent with the overall project schedule.
    - b. Provide methods and equipment to be used for demolition operations.
    - c. Means and methods to protect existing infrastructure, stockpile materials, and deliver salvaged material. Include the methods used to provide floats, false work, temporary supports, bracing, and shoring.
    - d. Address protection of the public and the environment. Include means and methods to prevent demolition materials and debris

DIVISION 02 – EXISTING CONDITIONS  
SECTION 02 41 00 – SELECTIVE DEMOLITION

generated from construction activities from falling into or entering the waterway.

- e. Laydown areas for materials management
- f. Disposal procedures, proposed landfills, and proposed recyclers.
- g. Provide procedures for safe conduct of the work in accordance with USACE EM 385-1-1 and ANSI A10.6.
- h. Coordination with other work in progress, coordination with Port operations, and provision of temporary utility services.
- i. If the Demolition Plan is revised, resubmit with any proposed changes for review by the Port prior to incorporating changes to means, methods, equipment, tools, temporary supports, etc.
- j. Record of existing conditions as described in Paragraph 1.08.A.

B. Closeout Submittals:

- 1. Submit receipts or bills of lading, as specified, as a record of disposal.
- 2. Submit two copies of trip tickets and receipts for all material transported to disposal facilities, including landfills and/or recyclers.

1.05 REGULATORY AND SAFETY REQUIREMENTS

- A. Comply with federal, state, and local permit requirements and conform to the safety requirements contained in ANSI A10.6 and USACE EM 385-1-1.

1.06 JOB CONDITIONS

- A. The Contractor represents that it has visited the site to become familiar with the quantity and character of all materials to be demolished. The Contractor assumes full responsibility for the proper disposal of all demolition materials. The Contractor agrees that the premises were made available prior to deadline for submission of bids for whatever inspection and tests the Contractor deemed appropriate. **NOTE: An inspection should be performed by the Contractor in order to identify and verify the existing conditions.**
- B. Verify all items for demolition, disposal, and salvage as early as practicable prior to start of the work. Notify the Port immediately if observed conditions differ from anticipated conditions. Do not proceed with installation until fully resolved.

1.07 DUST AND DEBRIS CONTROL

- A. Prevent the spread of dust and debris and avoid the creation of a nuisance or hazard in the surrounding area.
- B. Do not use water if it results in hazardous or objectionable conditions such as, but not limited to, ice, flooding, or pollution.
- C. Do not allow dust and debris to enter the waters of the State.

1.08 PROTECTION

- A. Before beginning any demolition work, survey the site and examine the drawings and specifications to determine the extent of the work. Record work in the presence of the Port showing the existing condition of structures and other

DIVISION 02 – EXISTING CONDITIONS  
SECTION 02 41 00 – SELECTIVE DEMOLITION

facilities adjacent to areas of demolition. Photographs on readily readable format electronic media (DVD) will be acceptable as a record of existing conditions.

- B. Take necessary precautions to avoid damage to existing items to remain in place, to be reused, or to remain the property of the Port. Repair or replace damaged items as approved by the Port at no additional cost to the Port. Coordinate the work of this section with all other work indicated. Construct and maintain shoring, bracing, and supports as required. Ensure that structural elements are not overloaded. Increase structural supports or add new supports as may be required as a result of any cutting, removal, or demolition work performed under this contract. Do not overload structural elements to remain. Provide new supports and reinforcement for existing construction weakened by demolition or removal work. Repairs, reinforcement, or structural replacement require approval by the Port prior to performing such work.
- C. Do not disturb existing construction beyond the extent indicated or necessary for installation of new construction. Provide protective measures to control accumulation and migration of dust, dirt, and debris in all work areas. Remove dust, dirt, and debris from work areas daily.
- D. Protect electrical and mechanical services and utilities that are to remain.
- E. Before, during, and after the demolition work, continuously evaluate the condition of the structure being demolished and take immediate action to protect all personnel working in and around the demolition site.

1.09 EXPLOSIVES

- A. Use of explosives will not be permitted.

PART 2 PRODUCTS

2.01 GENERAL

- A. Products that are required to repair, accomplish, or to be incorporated into the work of this section shall be selected by the Contractor, subject to the approval of the Port.

2.02 SALVAGE ITEMS

- A. Material Salvaged by the Contractor
  - 1. Material salvaged by the Contractor shall be stored as approved and shall be removed from Port property before completion of the contract. Material salvaged by the Contractor shall not be sold on site.

PART 3 EXECUTION

3.01 GENERAL

- A. Notify the Port prior to beginning demolition work.
- B. All items designated for removal shall be demolished, loaded, and properly disposed of by the Contractor. Care shall be taken that damage does not occur to adjacent existing structures which are to remain in place. Any structures to remain that are damaged as a result of demolition activities shall be repaired and or replaced by the Contractor at no expense to the Port.

DIVISION 02 – EXISTING CONDITIONS  
SECTION 02 41 00 – SELECTIVE DEMOLITION

- C. Timber spikes not shown on the Drawings are present throughout the structure; Contractor shall use caution when cutting and removing existing timber components.
- D. Provide shoring and bracing as needed to prevent damage to adjacent structures that are to remain in place.
- E. Demolition and disposal shall be in accordance with all federal, state, and local laws and regulations. Contractor shall obtain all necessary permits.

3.02 WIRE ROPE REMOVAL

- A. Contractor shall use caution when removing existing staples to minimize damage to existing piles to remain.
- B. All holes remaining from removed staples shall be filled with asphalt mastic.

3.03 SAWCUTTING

- A. Perform sawcutting of concrete pavement where indicated on the Drawings or otherwise specified. Sawcutting of existing concrete pavement shall be performed with extreme care to avoid any damage to the underlying timber components to remain.
- B. Neatly cut and remove materials, and prepare openings to receive new work.
- C. Use care in removing the concrete to protect existing concrete which is to remain in place adjacent to the work area and that all removals are accomplished by making a neat vertical saw cut at the boundaries of the area to be removed.
- D. Provide vacuum equipment to control dust and debris generated by sawcutting operations.
- E. Replace any adjacent damaged materials not designated for removal at no additional cost to the Port.

3.04 TIMBER REMOVAL

- A. Remove to the limits shown on the drawings and dispose of pressure-treated and creosote-treated timber. The Contractor is responsible for disposal of creosote-treated timber at an approved disposal facility.
- B. Cuts through components to remain shall be vertical and in straight lines.
- C. Do not allow timber, once removed, to enter the waters of the State. The Contractor shall make provisions using floats, falsework, scaffolding, and other means as necessary to prevent debris from falling into the water. All floating debris that falls into the water shall be removed immediately. All non-floating debris shall be noted and retrieved immediately upon coordination with the Port and the EPA. Depending on the type of item to be retrieved and where it fell, materials may be removed at a later date to avoid or minimize resuspension of contaminated material. The means and method of item retrieval shall be subject to approval of the Port and EPA. Removal and disposal of all floating and non-floating debris shall occur at no additional cost to the Port.

3.05 TIMBER DOLPHIN PILE FRESH HEADING

- A. Disassemble dolphin hardware and pull up timber piles a maximum of 5 feet. Cut existing pile top to elevation shown on the Drawings at an angle of 15 degrees.

DIVISION 02 – EXISTING CONDITIONS  
SECTION 02 41 00 – SELECTIVE DEMOLITION

- B. Do not make the cutoff until it has been determined that the exposed pile head will be totally protected within 72 hours.
- C. Keep the pile head dry from the time of the cutoff until it is totally protected.
- D. Notify the Port if the fender pile breaks during the pulling process or if the pile is no longer embedded.
- E. Treat field drilled holes per Section 06 10 00 – Rough Carpentry.

3.06 TIMBER PILE REMOVAL

- A. Vibratory extraction shall be used to remove existing timber piles.
- B. Removed timber piling shall be placed in a containment structure on a barge or truck for transport to an approved upland disposal facility.
- C. Remove in its entirety and dispose of treated timber piling. Do not allow timber, once removed, to enter the waters of the State.
- D. If a pile breaks above the mudline, the Contractor shall attempt to remove the remainder of the pile with a clamshell bucket, chain, or similar means. The size of the clamshell bucket shall be as small as possible to reduce turbidity during piling removal.
- E. If a pile cannot be removed, Contractor shall cut the pile a minimum of three feet below the mudline. Cap all buried cut stumps and fill holes left by piling extraction with clean sand.

3.07 DISPOSITION OF MATERIAL

- A. All materials and equipment removed and not reused or salvaged, shall become the property of the Contractor and shall be removed from the Port's property. Title to materials resulting from demolition, and materials and equipment to be removed, is vested in the Contractor upon approval by the Port of the Contractor's Demolition Plan, and authorization by the Port to begin demolition. The materials and equipment shall not be viewed by prospective purchasers, or sold, on the site.

3.08 DISPOSAL OF REMOVED MATERIALS

- A. Dispose of debris, rubbish, scrap, and other non-salvageable materials resulting from removal operations in compliance with all applicable federal, state and local regulations as contractually specified.
- B. Do not store removed materials on the project site.
- C. Transport waste materials removed from demolished structures from Port property for legal disposal. Dispose of waste piles as directed.
- D. Submit two copies of trip tickets and receipts for all material transported to disposal facilities, including landfills and/or recyclers.
- E. The use of burning at the project site for the disposal of refuse and debris will not be permitted.
- F. No material shall be disposed of in adjoining waterways.



DIVISION 02 – EXISTING CONDITIONS  
SECTION 02 41 00 – SELECTIVE DEMOLITION

- G. Cleanup: After removal of structures, clean the area. There shall be no debris, rubble, or litter left at the site from any of the demolition operations and the site shall be clean.

**END OF SECTION**

PART 1 – GENERAL

1.01 SCOPE

The work under this section consists of furnishing labor, materials, appliances, tools, and equipment to provide cast-in-place concrete work as shown on the drawings and as specified herein for the

1.02 SECTION INCLUDES

- A. Concrete Reinforcement
- B. Cast-in-Place Concrete

1.03 REFERENCES

- A. General: The publications listed below form a part of this Specification to the extent indicated by references thereto. References shall be the latest edition available as of the date of the invitation to bid unless otherwise specified.
- B. American Society for Testing and Materials (ASTM)
  - 1. ASTM A615 – Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement
  - 2. ASTM A706 – Standard Specification for Deformed and Plain Low-Alloy Steel Bars for Concrete Reinforcement
  - 3. ASTM A1064 – Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete
  - 4. ASTM C33 – Standard Specification for Concrete Aggregate
  - 5. ASTM C94 – Standard Specification for Ready-Mixed Concrete
  - 6. ASTM C150 – Standard Specification for Portland Cement
  - 7. ASTM C156 – Standard Test Method for Water Loss [from a Mortar Specimen] Through Liquid Membrane-Forming Curing Compounds for Concrete
  - 8. ASTM C171 – Standard Specification for Sheet Materials for Curing Concrete
  - 9. ASTM C260 – Standard Specification for Air-Entraining Admixtures for Concrete
  - 10. ASTM C309 – Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete
  - 11. ASTM C494 – Standard Specification for Chemical Admixtures for Concrete
  - 12. ASTM C920 – Standard Specification for Elastomeric Joint Sealants
  - 13. ASTM E96 – Standard Test Methods for Water Vapor Transmission of Materials

DIVISION 03 - CONCRETE  
SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

- C. American Concrete Institute (ACI)
  - 1. ACI 301 – Specifications for Structural Concrete
  - 2. ACI 305R – Guide to Hot Weather Concreting
  - 3. ACI 306R – Guide to Cold Weather Concreting
  - 4. ACI 308R – Guide to External Curing of Concrete
  - 5. ACI 318 – Building Code Requirements for Reinforced Concrete

1.04 SUBMITTALS

The following shall be submitted in accordance with Section 01 33 00, Submittal Procedures:

- A. Submit the following documents to, and obtain written approval from, the Port before placing any concrete on the job:
  - 1. Certificates of Specification compliance for materials to be used.
  - 2. Proposed concrete mix design indicating constituent material contents per cubic yard of concrete.
  - 3. Mix design test certificates for compressive strength, yield, air content, and slump of the proposed concrete mix. As a minimum, compressive strength test results at 7, 14, and 28-days shall be provided in accordance with ACI 318 5.3 unless otherwise specified.
  - 4. Manufacturer's name and certificates of compliance with applicable standards shall be provided for all admixtures, concrete bonding agents, curing compounds, etc., proposed for use on the job.
- B. Product Data: Submit data on the following products
  - 1. Concrete admixtures
  - 2. Curing compounds
  - 3. Steel reinforcement materials
  - 4. Joint sealant
  - 5. Accessories

1.05 VERIFICATION OF ELEVATIONS AND DIMENSIONS

- A. Field verify existing surface elevations.

1.06 QUALITY ASSURANCE

- A. Inspection and Testing as follows:
  - 1. Port will provide necessary inspection and testing as required.
  - 2. Provide at least 24 hours' notice to Port's inspector prior to each concrete pour.

3. Provide all necessary assistance and access in carrying out such inspections and tests, including sufficient mixed concrete and constituent materials required for testing and inspection, at no additional cost to the Port.
- B. Qualification of Workmen as follows:
  1. Provide at least one person who shall be present at all times during execution of this portion of the work. They shall be thoroughly trained and experienced in concrete work, and shall direct all work performed under this section.
  2. Trained and experienced journeyman concrete finishers shall be responsible for finishing of exposed surfaces.

## PART 2 – PRODUCTS

### 2.01 GENERAL

- A. All concrete shall be normal weight concrete and ready-mix. Batching, mixing, transportation, and delivery of ready-mix concrete shall conform to ASTM C94.
- B. Obtain cementitious materials from same source throughout.

### 2.02 MATERIALS

- A. Reinforcing
  1. Bars shall be of the sizes and shapes shown on the drawings and shall conform to ASTM A615, Grade 60 for bar size No. 5 and smaller and ASTM A706 for bar size No. 6 and larger. Bars shall be free of mill, scale, rust, or other coatings.
  2. Tie Wire: ASTM A1064, No. 16-gage minimum double annealed black wire.
- B. Aggregate
  1. Conform to ASTM C33.
  2. All coarse and fine aggregate shall consist of hard, tough, durable, particles free from foreign materials, and shall be stored in such a manner as to prevent segregation, excessive breakage, and the introduction of foreign material.
  3. Coarse aggregates shall be size 57 per ASTM C33.
- C. Water-reducing admixtures: Conform to the requirements of ASTM C494. Dosage rates in accordance with the manufacturer's recommendations.
- D. Air-entraining admixtures: Conform to ASTM C260. Dosage rates in accordance with the manufacturer's recommendations to meet the air content specified herein. The air-entraining admixture shall be added directly to the concrete materials either before or during mixing.
- E. Mechanical Bar Couplers: Couplers shall be manufactured to assure proper field alignment of butted rebar and shall develop 125 percent of the yield strength of the spliced bar. Bar couplers shall be Zap Screwlock by BarSplice Products, Bar Lock

DIVISION 03 - CONCRETE  
SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

by Dayton Superior, or Lenton Lock B or S series by ERICO International, Lenton Quick Wedge by ERICO International, or approved equivalent.

- F. High-Strength Epoxy Adhesive: Simpson Strong-Tie Set-XP®, Hilti HIT-RE 500, or Port approved equivalent.

2.03 CONCRETE MIX DESIGN

- A. The proportions of aggregate to cement for any concrete shall be such as to produce a mixture which will work readily into the corners and angles of the forms, around reinforcement and embedded items, with the least possible segregation of the material and preventing excess free water to collect on the surface
- B. Concrete shall be ready mixed concrete conforming to ASTM C94 and the following:
1. 28-day compressive strength: 5,000 psi minimum
  2. Slump: (3) inches, plus or minus one (1) inch. Slump may be increased by the addition of a water reducing admixture if approved by the Port.
  3. Aggregate: Per ASTM C33. Specific gravity of 2.60 minimum required.
  4. Cement: Cement shall conform to ASTM C150, Type I/II.
  5. Admixtures
    - a. All admixtures shall be supplied by one manufacturer approved by the Port.
    - b. Chemical admixtures shall conform to ASTM C494.
    - c. Air-Entraining Agents: Shall meet the requirements of ASTM C260 and shall be added to the mixer in the amount necessary to produce (5-1/2%) entrained air; plus or minus 1-1/2%.
    - d. Water-Reducing Agents: Shall be Master Builders' Pozzoloth," or approved equal, conforming to ASTM C494, Type A for water-reducing, Type D for water-reducing and retarding, and Type E for water-reducing accelerating.
    - e. Accelerators: Shall be approved by the Port prior to use and shall not include chlorides.
    - f. Retarders: Shall be approved by the Port prior to their use.
- C. Curing Materials
1. Curing materials and methods (if allowed by the Port) shall conform to ACI 308R.
  2. Curing and Sealing Compound (if allowed by the Port) shall conform to ASTM C309. Compound must be compatible with all applied finishes designated for use. Materials shall provide water retention not exceeding loss of .055 kg per square meter of surface in 72 hours when used at a coverage of 200 square feet per gallon and tested in accordance with ASTM C156.

DIVISION 03 - CONCRETE  
SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

3. Non-staining Waterproof Paper Covering: ASTM C171.
  4. Polyethylene Film: Permeance not to exceed 0.20 perms when tested according to ASTM E96, Procedure B.
- D. Joint Sealant
1. Joint sealant to match color of standard grey concrete.
  2. Joint sealant shall be one-part urethane sealant meeting ASTM C920, type S, Grade P, class 35, Use T.
- E. Bonding Agent
1. Two component epoxy suitable for bonding new concrete to existing in an exterior application.

PART 3 – EXECUTION

3.01 REINFORCING

- A. Fabrication and placement of all reinforcing steel ,including the dimensions and radii of cold bent bents, shall comply with ACI 318.
- B. Before any concrete is placed, all reinforcing steel in the section or area to be placed shall be securely tied in place (alternate bar intersections minimum).
- C. Placing and Fastening: Place all steel reinforcement accurately and hold firmly in the position indicated on the Drawing during the placing and setting of concrete. Tie bars at all intersections, except where spacing is less than one foot in each direction, then tie alternate intersections.
- D. Minimum Cover: Provide the following minimum concrete covering of reinforcement:
  1. Cover at unformed top surfaces: Two (2) inches, unless otherwise noted on the drawings.
- E. Steel reinforcement, at the time concrete is placed around it, shall be free from loose rust or mill scale, oil, paint, and all other coatings which will destroy or reduce the bond between steel and concrete.

3.02 CONCRETE

- A. Placement
  1. Concrete shall not be placed without adequate cover during expected rainy periods. Cover materials shall be at the job site, ready for installation before concreting is started and shall remain in place until the concrete has set sufficiently to resist any damage to the finish from rainfall.
  2. Water shall be removed from within forms and excavation before and during placement of concrete.
  3. Concrete shall be deposited in all cases as near as practicable directly in its final position and shall not be caused to flow in the mass in a manner to permit or cause segregation. Dropping concrete a distance of more than 5

DIVISION 03 - CONCRETE  
SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

feet vertically without proper confinement or depositing a large quantity at any point and running or working it along the forms will not be permitted.

4. Concrete shall be consolidated with the aid of mechanical vibrating equipment supplemented by hand spading and tamping. Vibrating equipment shall be of the internal type and shall at all times be adequate to properly consolidate all concrete.
5. Contractor shall establish a contained truck wash-out area for use by all trucks delivering concrete to the project. At the completion of work the Contractor shall restore the area to preconstruction condition. Wash-out may also be conducted in eco-buckets or offsite.

B. Cold and Hot Weather Concreting

1. Do not place concrete when the atmospheric temperature drops below 40 degrees Fahrenheit or rises above 90 degrees Fahrenheit, unless special procedures are followed. The temperature of the concrete at time of placement shall not be over 80 degrees Fahrenheit.
2. Production, delivery, placing, curing, inspection and testing of concrete under hot or cold weather conditions shall comply with ACI 305R, "Guide to Hot Weather Concreting" or ACI 306R, "Guide to Cold Weather Concreting".

C. Finishing

1. Spreading dry cement for finishing is not permitted.
2. Float Finish: All concrete slabs shall be float finished and sloped to indicated grades. Floating may be performed by use of hand or power driven equipment. Floating shall be started as soon as the screeded surface has stiffened sufficiently to produce a uniform surface free from screed marks.
3. Broom Finish: All concrete slabs shall be float finished as specified above and then broom finished immediately following. The broom shall be of an approved type that will produce regular corrugations not over 1/16-inch-deep. Strokes of the broom shall be to edge of the slab. The finished surface shall be free of porous spots, irregularities, depressions, and pockets.

D. Curing

1. Protect concrete from premature drying. Provide temporary housing, covering, heating, cooling, or other protection as needed. Follow finishing operations with curing measures within 2 hours.
2. Keep concrete continuously moist for 7 days. Prevent rapid drying at the end of the curing period. Accomplish cure by one of the following methods:
  - a. Ponding or continuous sprinkling.
  - b. Absorbent mats or fabrics kept continuously wet.
  - c. Use curing compounds as specified. Remove compound film from all exposed surfaces at the end of curing period. Obtain Port's approval for all curing compounds used on vertical surfaces.

DIVISION 03 - CONCRETE  
SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

- d. Non-staining waterproof paper as specified. Keep all joints airtight and weighted in place.
  - e. Non-staining polyethylene film as specified. Keep all joints weighted to prevent wind penetration.
- E. Tolerances
  - 1. Maximum Variation of Surface Flatness: 1/4 inch in 10 ft.
  - 2. Maximum Variation From True Position: 1/4 inch.
- F. Protection
  - 1. Immediately after placement, protect concrete from premature drying, excessive hot or cold temperatures, and mechanical injury.
  - 2. Do not permit vehicular traffic over concrete until strength of concrete has reached 4000 psi.
- G. Testing
  - 1. Testing of concrete material will be done by the Port. Methods of sampling, testing, evaluation, and acceptance will conform to ACI 301. All fresh concrete samples intended for testing will be taken at the point of deposit into the formwork.
  - 2. Testing, as described above, will be at Port's discretion and in no way relieves the Contractor of any obligations.
  - 3. Additional tests by the Port may include the following:
    - a. Additional testing and inspection required because of changes in materials, proportions, and procedures.
    - b. Additional testing of materials or concrete occasioned by their failure by test or inspection to meet Specification requirements.
  - 4. If any delivered load of concrete is rejected, dispose of completely off-site.
- H. Rejected Concrete
  - 1. Concrete not conforming with any portion of the specifications or concrete damaged from any cause and any concrete which shall be found defective at any time before the completion and acceptance of the work shall be removed and replaced.

3.03 MODIFICATION OF EXISTING CONCRETE

- A. Existing concrete shall be removed and the remaining surfaces resurfaced as specified. The remaining concrete shall be protected from damage. Where possible, clean lines shall be made by sawing through the existing concrete. The concrete may be broken out after initial saw cuts in the event thickness prevents cutting through. Where it is not possible to use a saw, the initial cuts shall be made with chipping hammers. These cuts shall be sufficient to prevent damage to the remaining concrete. The concrete shall be cut to the correct dimension, with the exposed reinforcing cut back an additional one inch and the resulting hole filled with epoxy grout.



### 3.04 INSTALLATION OF JOINT SEALERS

- A. General: Comply with joint sealer manufacturers' printed installation instructions applicable to products and applications indicated, except where more stringent requirements apply.
- B. Installation of Sealants: Install sealants by proven techniques that result in sealants directly contacting and fully wetting joint substrates, completely filling recesses provided for each joint configuration, and providing uniform, cross sectional shapes and depths relative to joint widths which allow optimum sealant movement capability.
- C. Clean off excess sealants or sealant smears adjacent to joints as work progresses by methods and with cleaning materials approved by manufacturers of joint sealers and of products in which joints occur.

**END OF SECTION**

PART 1 - GENERAL

1.01 SCOPE

The work under this section consists of furnishing labor, materials, appliances, tools, and equipment to provide miscellaneous fabricated steel, stainless steel and aluminum components, fender pile attachment hooks, wire rope, and all attachment hardware.

1.02 REFERENCES

The publications listed below form a part of this specification to the extent referenced. References shall be the latest edition available as of the date of the invitation to bid unless otherwise specified.

- A. American Institute for Steel Construction (AISC), Manual for Steel Construction, Fourteenth Edition.
- B. American Society for Testing and Materials (ASTM)
  - 1. ASTM A36/A36M - Standard Specification for Carbon Structural Steel;
  - 2. ASTM A47/A47M - Standard Specification for Ferritic Malleable Iron Castings
  - 3. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products;
  - 4. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
  - 5. ASTM A307 - Standard Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength
  - 6. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire
  - 7. ASTM A780 - Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dipped Galvanized Coatings
  - 8. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
  - 9. ASTM F547 - Standard Terminology of Nails for Use with Wood and Wood-Base Materials
  - 10. ASTM F593 - Standard Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs
  - 11. ASTM F594 - Standard Specification for Stainless Steel Nuts
  - 12. ASTM F1667 - Standard Specification for Driven Fasteners: Nails, Spikes, and Staples
- C. Society for Protective Coatings (SSPC)
  - 1. SSPC-Paint 20 - Zinc-Rich Coating Inorganic and Organic

DIVISION 05 – METALS  
SECTION 05 10 00 – MISCELLANEOUS METALS

1.03 SUBMITTALS

The following shall be submitted in accordance with Section 01 33 00, Submittal Procedures:

- A. Shop Drawings: Indicate profiles, sizes, finishes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.

1.04 QUALITY ASSURANCE

- A. Miscellaneous metal work shall be stored on blocking so that no metal touches the ground and water cannot collect thereon. The material shall be protected against bending under its own weight or superimposed loads.
- B. Before assembly, surfaces to be in contact with each other shall be thoroughly cleaned. All parts shall be assembled accurately as indicated on the drawings and the shop drawings. Light drifting will be permitted to draw parts together, but drifting to match unfair holes will not be permitted. Enlarging holes by burning will not be permitted.
- C. Use of salvage, reprocessed, or scrap materials will not be permitted.

PART 2 - PRODUCTS

2.01 MATERIALS - STEEL

- A. Steel Bars, Plates, and Sections: ASTM A36/A36M.
- B. Bolts: ASTM A307.
- C. Nails: ASTM F547, ASTM F1667, as noted on drawings or size and type best suited for purpose. All nails shall be hot-dip galvanized in accordance with ASTM A153.
- D. Malleable Iron Washers: ASTM A47/A47M. For malleable castings, the diameter shall be equal to 4 times the diameter of the bolt, and the thickness shall be equal to 1/2 the diameter of the bolt.
- E. Bolts, Nuts, and Washers: ASTM A307, galvanized to ASTM A153/A153M. Use washers with all nuts and bolts.
- F. Wire Rope: ASTM A641/A641M
- G. Hot-Dip Galvanize all plain steel items after fabrication to ASTM A123/A123M GR 100 or ASTM A153/A153M Class C, as applicable. Clean surfaces of rust, scale, grease, and foreign matter prior to finishing.
- H. Touch-Up Primer for Galvanized Surfaces: SSPC-Paint 20, Type I - Inorganic, complying with VOC limitations of authorities having jurisdiction.

2.02 MATERIALS - ALUMINUM

- A. Sheet Aluminum: ASTM B209 (ASTM B209M), 5052 alloy, H32 or H22 temper.
- B. Exterior Aluminum Surfaces: Class I natural anodized.
- C. Comply with AA DAF-45 for aluminum finishes required.
- D. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41 Clear anodic coating not less than 0.7 mils (0.018 mm) thick.

DIVISION 05 – METALS  
SECTION 05 10 00 – MISCELLANEOUS METALS

2.03 MATERIALS – STAINLESS STEEL

- A. Bolts and Screws: ASTM F593 type 316 condition CW
- B. Nuts: ASTM F594
- C. Washers: Type 316
- D. Stainless Steel Nails: Type 316, flat head, minimum length of 2.5 inches.

2.04 FABRICATION TOLERANCES

- A. Squareness: 1/8 inch (3 mm) maximum difference in diagonal measurements.
- B. Maximum Offset Between Faces: 1/16 inch (1.5 mm).
- C. Maximum Misalignment of Adjacent Members: 1/16 inch (1.5 mm).
- D. Maximum Bow: 1/8 inch (3 mm) in 48 inches (1.2 m).
- E. Maximum Deviation from Plane: 1/16 inch (1.5 mm) in 48 inches (1.2 m).

PART 3 - EXECUTION

3.01 WORKMANSHIP

- A. All work shall conform to the approved Shop Drawings, project drawings and this specification. Construction details, finishing details and colors shall be consistent throughout. Work shall be accurately set to establish lines and elevations, and securely fastened in place. Cutting, drilling, and punching shall produce clean true lines and surfaces.
- B. Edges shall be cut true, smooth, and free of burrs. Flame cutting is not permitted. Holes for bolts shall be drilled or punched. Corner edges shall be ground smooth. Mill stamps and markings shall be removed from all exposed surfaces.

3.02 EXAMINATION

- A. Verify that field conditions are acceptable and are ready to receive work.

3.03 PREPARATION

- A. Before assembly, surfaces to be in contact with each other shall be thoroughly cleaned.

3.04 INSTALLATION

- A. All fasteners removed as part of the work shall be replaced with new fasteners as specified herein.
- B. Vertical bolts shall have nuts on the lower end.
- C. Install items plumb and level, accurately fitted, free from distortion or defects.
- D. Provide for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.
- E. Obtain approval prior to site cutting or making adjustments not scheduled.

3.05 WIRE ROPE INSTALLATION

- A. Provide a minimum of five full wraps at each location and elevation.
- B. Install a minimum of one staple per pile per wrap.

DIVISION 05 – METALS  
SECTION 05 10 00 – MISCELLANEOUS METALS

- C. Staples shall be installed in undamaged locations on the piling.

3.06 FABRICATION

- A. Fabricate items with joints tightly fitted and secured.
- B. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.
- C. Exposed Mechanical Fastenings: Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.
- D. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.
- E. Provide isolation of dissimilar metals to prevent galvanic action.

3.07 REPAIR OF ZINC COATED SURFACES

- A. Repair damaged surfaces with galvanizing repair method and paint conforming to ASTM A780 or by application of stick or thick paste material specifically designed for repair of galvanizing, as approved by Port. Clean areas to be repaired. Heat surfaces to which stick or paste material is applied, with a torch to a temperature sufficient to melt the metallic in stick or paste; spread molten material uniformly over surfaces to be coated and wipe off excess material.

3.08 TRANSPORT AND DELIVERY

- A. The Contractor shall assume full responsibility for any damages or losses resulting from the handling or transporting of fabricated items during loading, shipping, transport, and delivery to the delivery site.
- B. Damage that occurs during transport and delivery and/or during other handling operations prior to final acceptance shall be repaired or replaced by the Contractor at the discretion of the Port and at no additional cost to the Port.

**END OF SECTION**

PART 1 GENERAL

1.01 SCOPE

The work under this section consists of furnishing labor, materials, appliances, tools, and equipment to provide structural members, preservative treatment of wood, miscellaneous framing, and UHMW-PE rub strips

1.02 REFERENCES

The publications listed below form a part of this specification to the extent referenced. References shall be the latest edition available as of the date of the invitation to bid unless otherwise specified.

- A. International Code Council (ICC).
  - 1. International Building Code (IBC), 2012 Edition
- B. American Society for Testing and Materials (ASTM):
  - 1. ASTM D256 - Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics
  - 2. ASTM D638 - Standard Test Method for Tensile Properties of Plastics
  - 3. ASTM D792 - Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
  - 4. ASTM D1894 - Standard Test Method for Static and Kinetic Coefficients of Friction of Plastic Film and Sheeting
  - 5. ASTM D2240 - Standard Test Method for Rubber Property – Durometer Hardness
  - 6. ASTM D6712 - Standard Specification for Ultra-High-Molecular-Weight Polyethylene (UHMW-PE) Solid Plastic Shapes
- C. American Wood Preservers' Association (AWPA)
  - 1. AWPA U1 - Use Category System: User Specification for Treated Wood; American Wood-Preservers' Association
  - 2. AWPA M4 - Care of Preservative-Treated Wood Products
- D. American Wood Council (AWC)
  - 1. National Design Specification for Wood Construction (NDS)
  - 2. Wood Frame Construction Manual (WFCM)
- E. National Institute of Standards and Technology
  - 1. PS 20 - American Softwood Lumber Standard; National Institute of Standards and Technology (Department of Commerce)
- F. West Coast Lumber Inspection Bureau (WCLIB)
  - 1. WCLIB (GR) - Standard Grading Rules for West Coast Lumber No. 17; West Coast Lumber Inspection Bureau
- G. Western Wood Preservers Institute (WWPI)
  - 1. Best Management Practices for the Use of Treated Wood in Aquatic and Wetland Environments

DIVISION 06 – WOOD, PLASTIC, AND COMPOSITES  
SECTION 06 10 00 – ROUGH CARPENTRY

- H. Western Wood Products Association (WWPA)
  - 1. WWPA G-5 - Western Lumber Grading Rules; Western Wood Products Association

1.03 SUBMITTALS

- A. Submit the following to the Port. The Contractor shall not order any products prior to Port approval.
  - 1. Provide technical data on wood preservative materials, and application instructions.
  - 2. Manufacturer's Certificate: Certify that wood products supplied for rough carpentry meet or exceed specified requirements.
  - 3. Provide shop drawings and product data for the rub strips.
  - 4. Provide product data for the asphalt mastic.

1.04 QUALITY ASSURANCE

- A. Lumber: Comply with PS 20 and approved grading rules and inspection agencies.
  - 1. Acceptable Lumber Inspection Agencies: WCLIB and WWPA.
  - 2. Lumber of other species or grades, or graded by other agencies, is acceptable provided structural and appearance characteristics are equivalent to or better than products specified. Submit information showing proposed standard is equivalent to material specified herein.
- B. Exposed-to-View Rough Carpentry: Submit manufacturer's certificate that products meet or exceed specified requirements, in lieu of grade stamping.
- C. Preservative-Treated Wood: Provide lumber marked or stamped by an American Lumber Standard Committee (ALSC) accredited testing agency, certifying level and type of treatment in accordance with AWP standards.
- D. Before assembly, surfaces to be in contact with each other shall be thoroughly cleaned. All parts shall be assembled accurately as indicated on the drawings and the shop drawings. Light drifting will be permitted to draw parts together, but drifting to match unfair holes will not be permitted. Enlarging holes by burning will not be permitted.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. General: Store and handle all preservative-treated wood products in accordance with AWP M4.
- B. Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.
- C. Store structural members above ground on platforms, skids, or other supports.
- D. Avoid damaging structural members, including finishes, and use wooden protectors to prevent damage from chain or cable cinches.
- E. Treated timber shall be handled carefully without dropping, breaking of outer fibers, or bruising or penetrating the surface with tools.

PART 2 - PRODUCTS

2.01 DIMENSION LUMBER

- A. Doug Fir, Larch, grade No. 1 or better, no loose knots in accordance with WCLIB grading rules No. 17. Surfaced S4S or as otherwise noted on the plans. Commercial inspection with certification is required; mill certificates are not acceptable.

2.02 TIMBER TREATMENT

- A. All timber members shall be pressure treated with preservative as outlined below. All timbers shall be cut to length, drilled, and dapped prior to treatment to the extent possible. All pressure treatment processes shall be performed in accordance with Best Management Practices for the specified treatment type as published by the Western Wood Preservers Institute (WWPI), latest edition.
  - 1. Sawn Timbers: AWP A U1 Use Category UC4B, using ACZA.
    - a. Preservative for Field Application to Cut Surfaces: As recommended by manufacturer of factory treatment chemicals for brush-application in the field.
  - 2. Treated timber shall be handled carefully without dropping, breaking of outer fibers, or bruising or penetrating the surface with tools.
  - 3. Field drilled holes, cuts, abrasions, and minor damaged areas shall be field treated per AWP A M-4, with an Port-approved treatment product.

2.03 ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE (UHMW-PE) RUB STRIPS

- A. UHMW-PE polyethylene rub strips shall be black color and conform to ASTM D6712.
- B. UHMW-PE shall be impact resistant; abrasion resistant; UV protected; non-corrosive rot and splinter resistant; and resistant to marine borers and barnacle growth.
- C. UHMW-PE shall be able to be drilled and chamfered.
- D. UHMW-PE shall have the following minimum properties (+/- 10 percent):
  - 1. Specific gravity of 0.93 g/cm<sup>3</sup> per ASTM D792.
  - 2. Tensile Strength of 4,000 psi per ASTM D638.
  - 3. Durometer Hardness of D68 per ASTM D2240.
  - 4. Ultraviolet stabilized with 2.5 percent carbon black or equivalent.
  - 5. Maximum coefficient of friction of 0.20 per ASTM D1894.
  - 6. UHMW-PE shall exhibit no failure when tested per ASTM D256, Method B.
- E. Provide curved profile for attachment to timber fender piling.
- F. Recess or counterbore all fasteners and/or straps.
- G. Provide all necessary hardware for field attachment of rub strips.
- H. All materials shall be inert.



2.04 ASPHALT MASTIC

- A. Fields F300 PowrMastic from Washington Cedar & Supply, or Port approved equivalent.

2.05 ATTACHMENT HARDWARE

- A. Refer to Section 05 10 00 for attachment hardware requirements.

**PART 3 - EXECUTION**

3.01 EXAMINATION

- A. Verify that field conditions are acceptable and are ready to receive work.

3.02 INSTALLATION

- A. Select material sizes to minimize waste.
- B. Set structural members level, plumb, and true to line. Discard pieces with defects that would lower required strength or result in unacceptable appearance of exposed members.
- C. Make provisions for temporary construction loads, and provide temporary bracing sufficient to maintain structure in true alignment and safe condition until completion of erection and installation of permanent bracing.
- D. Install structural members full length without splices unless otherwise specifically detailed.
- E. Comply with member sizes, spacing, and configurations indicated, and fastener size and spacing indicated. All lumber and timber shall be accurately cut and framed to a close fit so that the joints will have even bearing over the entire contact surfaces without shimming.
- F. Apply a silicone grease to the interface between all galvanized hardware and ACZA-treated timber.
- G. Before assembly or making repairs, surfaces to be in contact with each other shall be thoroughly cleaned.

3.03 LAMINATED DECKING

- A. Laminate decking with 3/8-inch-diameter, 12-inch-long spikes at 12 inches on-center with a minimum edge distance of 2 inches.
- B. Stagger spikes near the upper and lower edges.
- C. Stagger spikes 6 inches in adjacent laminations.
- D. Toe nail each lamination to each pile cap with two (2) 40d common nails.
- E. Drill 1/4-inch-diameter holes for spikes to prevent splitting.

3.04 SITE-APPLIED WOOD TREATMENT

- A. Apply site-applied preservative treatment compatible with factory applied treatment at site-sawn cuts, holes, or abrasions, complying with manufacturer's instructions and AWP standard M4. Site-applied wood treatment shall be applied before driving bolts into holes bored after factory applied treatment.
- B. Allow preservative to dry prior to erecting members.

DIVISION 06 – WOOD, PLASTIC, AND COMPOSITES  
SECTION 06 10 00 – ROUGH CARPENTRY

- C. Any unfilled holes bored after treatment, after being treated as per above, shall be plugged with preservative-treated plugs.
- D. The preservative treatment shall be by brushing, dipping, or soaking as recommended by the manufacturer and shall be done in a manner that the preservative does not drip or spill on the ground or into the water.

3.05 COUNTERSINKING

- A. Countersink timber and UHMW-PE members as indicated on the drawings.

3.06 HOLES FOR BOLTS, DOWELS, RODS, LAG SCREWS, NAILS AND SPIKES

- A. All holes shall be drilled with auger or general purpose type drill bits. Spade bits will not be permitted.
- B. Holes for machine, hex or economy head type bolts through timber members shall be bored with a bit 1/16 inch larger than the diameter of the bolt.
- C. Holes for lag screws shall be bored with a bit with the same diameter and length as the unthreaded body and pilot bored using a drill not larger than the diameter of the screw at the root of the thread for the full depth of thread penetration.
- D. Pilot holes for nails shall be provided at the ends of all boards or where splitting might occur. Pilot hole diameter shall be 1/32 inch smaller than the nail diameter. Depth of pilot hole need only extend through the thinner member being fastened.

3.07 PROTECTION

- A. Protect installed product's finish surfaces from damage during construction.
- B. Repair or replace damaged installed components as approved by the Port at no additional cost to the Port.

3.08 CLEANING

- A. Waste Disposal:
  - 1. Comply with applicable regulations.
  - 2. Do not burn scrap on project site.
  - 3. Do not burn scraps that have been pressure treated.
  - 4. Do not send materials treated with pentachlorophenol, CCA, or ACZA to co-generation facilities or "waste-to-energy" facilities.
- B. Remove temporary coverings and protection of adjacent work areas.
- C. Clean installed products in accordance with manufacturer's instructions prior to Port's acceptance.
- D. Do not leave any wood, shavings, sawdust, etc. on the ground or structure surfaces.
- E. Prevent sawdust and wood shavings from entering the water.

**END OF SECTION**

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. The work under this section consists of furnishing all labor, materials, appliances, tools, and equipment for installation of Port-furnished timber piles as shown on the drawings and as specified herein.

1.02 REFERENCES

The publications listed below form a part of this specification to the extent referenced. References shall be the latest edition available as of the date of the invitation to bid unless otherwise specified.

- A. American Society for Testing and Materials (ASTM):
  - 1. ASTM A148/A148M - Standard Specification for Steel Castings, High Strength, for Structural Purposes
- B. American Wood Preservers' Association (AWPA)
  - 1. AWPA M4 - Standard for the Care of Preservative-Treated Wood Products

1.03 SUBMITTALS

Preconstruction Submittals:

The following shall be submitted in accordance with Section 01 33 00 Submittal Procedures:

- A. Pile Driving Equipment: Description of the pile driving equipment to be employed in the work, prior to commencement of pile installations; including details of the pile hammer, leads, cushion material, and power pack. This submittal is not for Port approval but is intended to provide information as to the equipment that the Contractor will use for driving the piling. The Contractor is responsible for ensuring that the equipment selected is properly sized for the anticipated driving conditions.
- B. Pile Driving Procedures: Provide narrative and illustrations to fully describe complete installation plan. Detail drawings and description of a pile template if used, shall be submitted for approval. Provide drawings and details for any method to be used to maintain the tolerance required in the specifications for approval. Pile driving procedures must include means for handling obstructions.
- C. Pile Driving Records: Provide a complete and accurate record of each installed pile. The record shall indicate the pile number or identification, location, inclination, size, and final elevations of tip and top. For vibratory driving record penetrations in seconds per foot for the vibratory hammer driven length. For impact driving record blows required for each foot of penetration throughout the entire length of the pile and for the final 6 inches of penetration. The penetration records shall encompass the entire length of penetration. The record shall also include the type and size of the hammer, the rate of operation, obstructions, and unanticipated interruptions. Any unusual conditions encountered during pile installation shall be recorded and immediately reported to the Port. Submit the completed pile driving data sheet included at the end of this section. See Section 3.04A for requirements for installation records and inspection data.

1.04 EXPERIENCE

- A. Installer: The work shall be performed by a general contractor or a specialty subcontractor specializing in the installation of piles and having a minimum of 5 years experience installing the piles under similar subsurface conditions.

1.05 SUBSURFACE DATA

- A. Refer to the Record Drawings provided in the Drawings.
- B. Underwater debris may be present. It is the Contractor's responsibility to determine if any debris is present and perform the appropriate measures to address any debris issues.

1.06 PERMIT REQUIREMENTS

- A. Refer to the permit documents for additional requirements.

PART 2 - PRODUCTS

2.01 TIMBER PILES

- A. Furnished by the Port; coordinate pick-up location and logistics with the Port.

2.02 PILE DRIVING EQUIPMENT

- A. Pile Hammers: Hammer selection is the responsibility of the Contractor. Use a hammer with a capacity at least equal to the hammer manufacturer's recommendation for the total weight of pile, character of subsurface material to be encountered, and the pile capacity to be developed. The driving energy of impact hammers shall be sufficient to drive the timber piling to the approved embedment depth.
- B. Pile Driving Shoe: The Contractor shall use appropriate means and methods to keep pile driving stresses within allowable limits and to drive the piles to the approved embedment depth. To achieve the minimum embedment depth the timber piles may be equipped with a driving shoe. The Contractor shall ensure that the driving shoe is compatible with the anticipated soil conditions, piling, and the pile driving equipment. The driving shoes shall conform to ASTM A148/A148M 90/60.
- C. Driving Helmets for Impact Driving: Use a driving helmet or cap between the top of the pile and the ram to prevent impact damage to the pile. The driving helmet shall be capable of protecting the head of the pile, minimizing energy absorption and dissipation, and transmitting hammer energy uniformly over the top of the pile. The driving helmet or cap shall fit loosely around the top of the pile so that the pile is not restrained by the driving cap if the pile tends to rotate during driving.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Refer to Section 02 41 00 – Selective Demolition for removal of existing timber piles.
- B. Examine piles when mobilized to the site and immediately before driving.

DIVISION 31 - EARTHWORK  
SECTION 31 62 19 – TIMBER PILES

- C. Where the protective shell of treated wood is impaired at a point which after installation will be less than 10 feet (3 meters) below the ground, make repairs in accordance with AWWA M4 unless the pile is damaged to such extent that it is rejected.
- D. Prior to driving the pile, Contractor shall perform a Wave Equation Analysis (WEAP) to help select the most appropriate hammer characteristics for the anticipated driving conditions.
- E. The Contractor shall not mobilize hammers and related equipment prior to receiving written approval of the pile driving plan. All driving methods shall meet the requirements of all permits issued for this project.
- F. Inspect piles immediately before driving. Piles shall be handled so as to protect pile treatments. Repair damage or defects in pile treatment as specified.
- G. Use driving method which will not cause damage to piling or nearby structures.
- H. Pile Identification and Marking
  - 1. Mark piling with lines of high visibility paint or ink at one-foot intervals from bottom (tip) to top (butt). Number the painted lines every five feet. Markings shall be clearly visible and legible to the naked eye at a distance of 75 feet. Piles not properly marked will be rejected.

3.02 DRIVING TOLERANCES

- A. Piles shall be checked for heave. Piles found to have heaved shall be re-driven to the required embedment depth.

3.03 INSTALLATION

- A. Pile Driving
  - 1. Drive piles to tip elevation in accordance with the Drawings. Diesel-powered or hydraulic hammers and vibratory hammers shall be operated at the rate recommended by the manufacturer throughout the entire driving period. Maintain sufficient pressure at the steam hammer so that: for a double-acting hammer, the number of blows per minute during and at the completion of driving of a pile is equal approximately to that at which the hammer is rated; for a single-acting hammer, there is full upward stroke of the ram; for a differential type hammer, there is a slight rise of the hammer base during each upward stroke.
  - 2. Each pile shall be driven continuously and without interruption with the same hammer until the Port-approved depth of penetration has been attained. Any interruption of more than 15 minutes is considered a stop in continuous driving. The established driving criteria from the WEAP analysis will apply after the piling have been driven at least 24 inches after the interruption.
  - 3. Contractor shall anticipate selective removal of riprap and large rocks near shore.
- B. Equip timber pile tips with steel driving shoes as necessary as noted in these specifications. Attach shoes to pile tips with the appropriate hardware as recommended by the pile tip manufacturer. Field trim and finish exposed top of

fender piles as noted on the Plans. Damaged pile tops from pile driving such as splits, mushrooming or other defects will not be permitted.

- C. Driving Termination: Driving shall not be terminated until the Port approved embedment depth is reached.
- D. Jetting of Piles: Jetting of piles will not be permitted.
- E. Pile Cutting
  - 1. If required, piles shall be cut off using a method approved by the Port. All cutting shall be done in a neat and workmanlike manner.
  - 2. Pile head treatment: Treat the tops of all cut off piles, including bearing and fender piling, with asphalt mastic and then cap the pile top with a 22 gauge aluminum sheet extending 3 inches down all sides of the pile. Attach the aluminum sheet with eight (8) equally spaced stainless steel nails.

### 3.04 FIELD TESTS AND INSPECTIONS

- A. Piles
  - 1. Installation records and inspection data shall be recorded by the Contractor for each pile in a format approved by the Port. Three copies of the records and inspection data shall be submitted to the Port for each pile driven by the end of the following shift.

### 3.05 TIMBER FENDER PILE FRESH HEADING

- A. Refer to Specification 02 41 00 – Selective Demolition.

### 3.06 PILE DISPOSAL

- A. Pile cutoffs shall be disposed of legally by the Contractor off Port property. Disposal of cutoffs shall be at the Contractor's expense.

### 3.07 UNACCEPTABLE PILES

- A. Unacceptable Pile: Pile that fails tests or is damaged.
- B. Provide additional piling or replace with pile that conforms to specified requirements.

### 3.08 DELIVERY, HANDLING AND STORAGE

- A. Coordinate pick-up of timber piles with the Port.
- B. Store all materials in accordance with AWP4 M4, in a safe area, out of the way of traffic, and stored on blocking or dunnage so that piles are not damaged, and so that material does not come in contact with the ground.
- C. Place identification numbers on all delivered materials (such that they are visible and above water level after assembly) that conforms to the shop drawing numbering system.
- D. In the event of damage caused by the Contractor, immediately make repairs and/or replacements necessary to the satisfaction of the Port at no additional contract cost.

**END OF SECTION**

DIVISION 31 - EARTHWORK  
SECTION 31 62 19 – TIMBER PILES

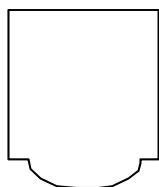
PILE AND DRIVING EQUIPMENT DATA SHEET

Contract No.: \_\_\_\_\_ Structure Name and/or No.: \_\_\_\_\_  
Project: \_\_\_\_\_  
County: \_\_\_\_\_

Pile Driving Contractor or Subcontractor: \_\_\_\_\_

(pile driven by)

HAMMER  
COMPONENTS



HAMMER

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_  
Type: \_\_\_\_\_ Serial No.: \_\_\_\_\_  
Rated Energy: \_\_\_\_\_ @ \_\_\_\_\_ Length of Stroke  
Explosive Force: \_\_\_\_\_  
(for diesel hammers)

RAM

Ram Weight: \_\_\_\_\_ Ram Length: \_\_\_\_\_  
Ram Cross Sectional Area: \_\_\_\_\_ (for diesel hammers)

ANVIL

(with diesel hammers) Anvil Weight: \_\_\_\_\_

CAPBLOCK

Material: \_\_\_\_\_ Area: \_\_\_\_\_  
Thickness: \_\_\_\_\_  
Modulus of Elasticity – E: \_\_\_\_\_ (psi)  
Coefficient of Restitution – e: \_\_\_\_\_

PILE CAP

Helmet  
Bonnet  
Anvil Block  
Drivehead  
Total Weight: \_\_\_\_\_

CUSHION

Cushion Material: \_\_\_\_\_ Area: \_\_\_\_\_  
Thickness: \_\_\_\_\_  
Modulus of Elasticity – E: \_\_\_\_\_ (psi)  
Coefficient of Restitution – e: \_\_\_\_\_

PILE

Type: \_\_\_\_\_  
Pile Size: \_\_\_\_\_ Length (in leads): \_\_\_\_\_  
Diameter: \_\_\_\_\_  
Wall Thickness: \_\_\_\_\_ Taper: \_\_\_\_\_  
Material: \_\_\_\_\_ Weight/Ft.: \_\_\_\_\_  
Design Pile Capacity: \_\_\_\_\_  
Description of Splice: \_\_\_\_\_  
Tip Treatment Description: \_\_\_\_\_