



PORT OF PORTLAND
P.O. Box 3529
Portland, Oregon 97208

TERMINAL 5
BERTH 503 REHABILITATION

Solicitation No. 2022-9690

Bids Due: July 21, 2022

By: 2 p.m.

ADDENDUM NO. 1

Addendum No. 1 hereby amends the project manual for the Terminal 5 Berth 503 Rehabilitation project dated June 22, 2022. It is essential that prospective bidders note the contents of this addendum and that the Port of Portland be made aware that the addendum has been received. Therefore, acknowledge receipt by inserting the number of this addendum in the space provided on Page 004100-4 of the bid.

Project Manual

Page 001100-1, change first paragraph to read, in part, "...until, but not after, 2 p.m. on July 21, 2022...."
(Note that the bid opening has been rescheduled.)

Page 033000-4, add the following:

- "2.7 DECK SEALANT
 - "A. Products:
 - "1. Sika; Sikagard-740 W.
 - "2. W.R. Meadows; Intraguard.
 - "3. Or pre-bid approved equal."

Page 033000-7, add the following:

- "3.8 DECK SEALANT
 - "A. Prepare substrate and apply deck sealer in accordance with the manufacturer's recommendations."

Page 033100-8, add the following:

- "2.9 DECK SEALANT
 - "A. Products:
 - "1. Sika; Sikagard-740 W.
 - "2. W.R. Meadows; Intraguard.
 - "3. Or pre-bid approved equal."

Page 033100-17, add the following:

- "3.19 DECK SEALANT
 - "A. Prepare substrate and apply deck sealer in accordance with the manufacturer's recommendations."

Page 099723-5, 1.5, B, 7, c, 4), change to read, in part, “A licensed engineer shall seal and approve calculations....”

Following Section 264217, add the enclosed new Section 355920, Marine Fenders.

THE PORT OF PORTLAND

Contracts and Procurement

July 15, 2022

Enclosures: Section 355920, Marine Fenders

SECTION 355920 – MARINE FENDERS

PART 1– GENERAL

1.1 DESCRIPTION

- A. The marine fender work includes providing ultra-high molecular weight polyethylene (UHMW-PE) facing and all associated bolts and miscellaneous connection hardware.

1.2 REFERENCE STANDARDS

- A. American Society for Testing Materials (ASTM) Standard Specifications and Standard Test Methods designated by basic reference in this Section (use the most current edition at the time of bid unless otherwise indicated).

1.3 QUALITY ASSURANCE

- A. The Port will inspect UHMW-PE facing installation at its discretion. Provide access to the Port for these inspections at any time and at no additional cost to the Port.

1.4 SUBMITTALS

- A. Prepare a complete UHMW-PE facing system package in English units. Incomplete submittals, submittals without English units, or submittals without appropriate standard references will be returned without being reviewed. As a minimum include the following:
 - 1. Shop drawings and catalog cuts of the UHMW-PE facing system elements showing complete system assemblies.
 - 2. Test results for UHMW-PE materials demonstrating compliance with the requirements of this Section.
- B. Submit a written warranty stating that all components of the UHMW-PE facing system, including anchorage hardware, shall be free of defects in material and workmanship for a minimum period of 5 years from the date of substantial completion, and that all defects evident during that period shall be removed and replaced, at no additional cost to the Port, within 90 days of notification.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Provide UHMW-PE facing, fasteners, and anchor bolts in accordance with the Drawings, Specifications, and as-built documents.

2.2 UHMW POLYETHYLENE FACING

- A. Provide ultra-high molecular weight polyethylene (UHMW-PE) facing with thickness shown on the Drawings. Use 2-1/2 percent UV-stabilized virgin resin conforming to ASTM D 4020, having UV-stabilized dyes, and conforming to the following:

Property	Test Method	Acceptance Requirements
Specific Gravity	ASTM D792	0.93 g/cm ³ (min)
Ultimate Tensile Strength	ASTM D638	5,800 psi (min)
Izod Impact, Double Notch	ASTM D256A	23-29 ft-Ibs/notch
Abrasion	Sand Slurry	16
Water Absorption	ASTM D570	Nil
Coefficient of Friction	ASTM D1894	0.20 (max)
Hardness	ASTM D785	63-68
Thermal Expansion	ASTM D648	9.0x10 ⁻⁵ in/in/°F
Color	Not Applicable	Match Existing

2.3 BOLTS AND MISCELLANEOUS HARDWARE

- A. Attach UHMW-PE facing units to the existing frontal panel with new hardware of quantity, type, size, and pattern to match existing.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install UHMW-PE facing units at the locations and in accordance with the approved shop drawings.
- B. Do not damage, cut, or tear the UHMW-PE facing units during installation.
- C. Provide a minimum UHMW-PE thickness under the bolt head to match existing. Chamfer individual UHMW-PE facing units a minimum of 3/4 inch on all four sides.

3.2 INSPECTION

- A. The UHMW-PE facing units will be inspected after installation and will be subject to approval by the Port.
- B. Replace any damaged elements and make corrections to the UHMW-PE facing units as required to conform to this Specification, the Drawings, and the approved shop drawings, all at no additional cost to the Port.

3.3 SALVAGE OF UHMW-PE FACING UNITS

- A. Existing UHMW-PE facing units with a minimum of thickness of 75% of the thickness listed on the Drawings shall be delivered to the Port.
- B. Dispose of all existing hardware.

END OF SECTION 355920