

Project Title

Replace Rubrails and Repair Hull of NHL Steam Tugboat *Hercules*

Project Description

This project will replace approximately 125-feet of deteriorated (rotten) rub rail and insert approximately 250-square feet of steel hull plate located under the rub rail on the National Historic Landmark (NHL) Steam Tug *Hercules*. This project continues and completes one of the repairs begun during the haul out in 2009-2010.

The work specified includes the transportation of the *Hercules* from her berth at Hyde Street Pier to the shipyard and from the shipyard to the berth at Hyde Street Pier. This project calls for the contractor to supply all of the materials and labor to repair the steel and wood rub rails.

The rotted portions of the wooden rub rail shall be removed and disposed. Wasted steel plate underlying the wooden rub rail shall be cropped and new steel plate welded in place. All underlying steel shall be prepared, primed and coated with paint. New wood shall be shaped, fitted, and fastened in to replace in kind the rotted wooden rub rail. The new wood will be coated to match the existing rub rail.

Project Materials

- Douglas Fir WCLIB Grade for Beams, Select Structural, Paragraph 130-a and Dense Select Structural, Paragraph 130-aa
- Steel plate, 1/4" steel angle, and flat bar
- AC Primer, marine grade topcoat paint for metal, oil based marine sealer, and oil based enamel paint for wood.