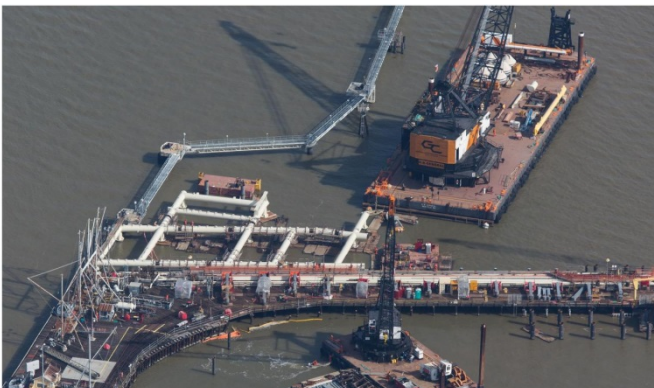




**Owner:** Tesoro Refining and Marketing Company LLC

**General Contractor:** Cherne Contracting Company

**Description:** Four pile cap frames and interconnecting pipe sections for replacement of the Avon Wharf facility at Tesoro's Martinez, CA refinery. The largest frame section weighed over 164 Tons (328,000 lbs). Large subassemblies were manufactured in our March Point fabrication shop and then transported to MJB's Properties site in Anacortes, WA. These were then fit and welded to form four large pile cap frames. The pipe was manufactured by TBAILEY and bevel prepared utilizing our custom designed automated burning machine for each of the intricate pipe joints. Some of the sections prepared and joined were over 3.5" thick. Full penetration welds were required including 100% UT inspection. Several of the heavier walled subassemblies required furnace heat treatment as well.



After welding and painting of the pipe cap frame assemblies the sections were transported by two 500 Ton rolling platforms to the dock loading area. At this point a barge based derrick crane lifted the sections onto a transport barge for delivery to Tesoro's Martinez site.