



**WASTE TREATMENT SCHEMATIC**

The boat as originally designed has a single AFT holding tank mounted and accessible under the PORT side mattress of the rear berth. By half folding to the stern the mattress, the access hatch is visible. The FWD head had a long 20' +/- waste hose run to the AFT holding tank. Because of smell the boat had been re-plumbed at some past date, for direct discharge from the head to the ocean. This is illegal in the US by Coast Gard regulation.

It was decided to revise the Grey Water Waste System based on Raritan Lectro San Units. Each head was discharged directly to its own Lectro San, then onto a holding tank when the Lectro San is full (4 toilet flushes +/-). From the holding tanks their discharge goes to a Y valve which feeds either an on-deck pump-out fitting or to an electric diaphragm pump to a below water line seacock thru-hull. The Lectro Sans have a separate controller for maceration and hydrolyzing sea water to a weak hydrochlorous acid to treat the waste, the cycle time and sequence are programmed into the control unit. The holding tank discharge pumps are manually controlled and left on, until the pump is not drawing waste, then they are switched off