HUNTON ENGINEERING DESIGN LTD SPRING 2010 NEWS....



HUNTONS HAVE BEEN WORKING ON A VARIETY OF PROJECTS OVER THE COLDER PERIOD BOTH SHOP AND SITE BASED. PROJECTS INCLUDE THE MANUFACTURE OF A NEW SET OF LOCK GATES AT SHIPLAKE LOCK ON THE THAMES. FURTHER WE ARE ALSO IN THE PROCESS OF DESIGNING A NEW RADIAL GATE PROPOSED FOR THE RIVER MEDWAY. WE WERE CONTRACTED BY A MAJOR ENGINEERING CONSULTANCY TO UNDERTAKE THE MECHANICAL AND FABRICATION DESIGN FOR A NEW RADIAL GATE ON THE MEDWAY UTILISING OUR SPECIALIST GATE EXPERIENCE, 3D MODELLING CAPABILITY AND FINITE ELEMENT ANALYSIS SOFTWARE.



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Our involvement in Allington sluice refurbish project continues with the commissioning of gate I and full handover the the EA. Above right we have the gate shown fully raised. The gate itself weighs 10 Tonnes and measures 9.5 x 4.6 Mts retaining a 4.3 Mt head under normal flow conditions. Above left shows the drive system incorporation a 7250:I ratio helical bevel box allowing just a I.IKW motor to lift the 10 Tonne load.



FURTHER, TO ENSURE TOTALLY SAFE OPERATION THE HANDWIND INPUT (WHICH IS INFACT AN ELECTRIC ACTUATOR DUE TO THE VERY HIGH RATIO DRIVE) IS FULLY INTERLOCKED WITH A CASTELL KEY SYSTEM TO ENSURE IT CANNOT BE USED OR THE BRAKE CANNOT BE DISABLED WITHOUT USING THIS DEVICE.



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