



OCS's submersible pumps are used for pipeline post trenching by water Jetting or other applications requiring high water volumes of water. During the post trenching operation the submersible pump supply high volume of water to the water distribution manifold from where large quantities of water will be supplied to the high pressure jetting pump and then to the water spooler for high pressure jetting operation.

*The submersible pump employed in the OCS's pipeline post trenching spread is a 400QWB series submersible pump which can deliver water at a rate of **7045GPM** with a head of **10m**. The flow passage components of this series sewage pump are made from excellent hydraulic model design, which synthesizes pump construction, sealing, cooling, controlling and protection into an optimized design. With these unique designs, this submersible pump set has characteristics of excellent drainage & fibrous materials winding prevention, high efficiency, energy saving and good reliability. By working with special electric control cabinet, the pump set can work automatically, which provides extra safety and reliability to the pump set.*

Submersible Pump Specifications	
Model	400QWB1600-10-75
Flow rate (m ³ /hr)	1600
Head (m)	10
Rotation Speed (r/min)	740

SUBMERSIBLE PUMP – WATER DISTRIBUTION SYSTEMS

Motor Power (kW)	75
Voltage (V)	380
Current (A)	125

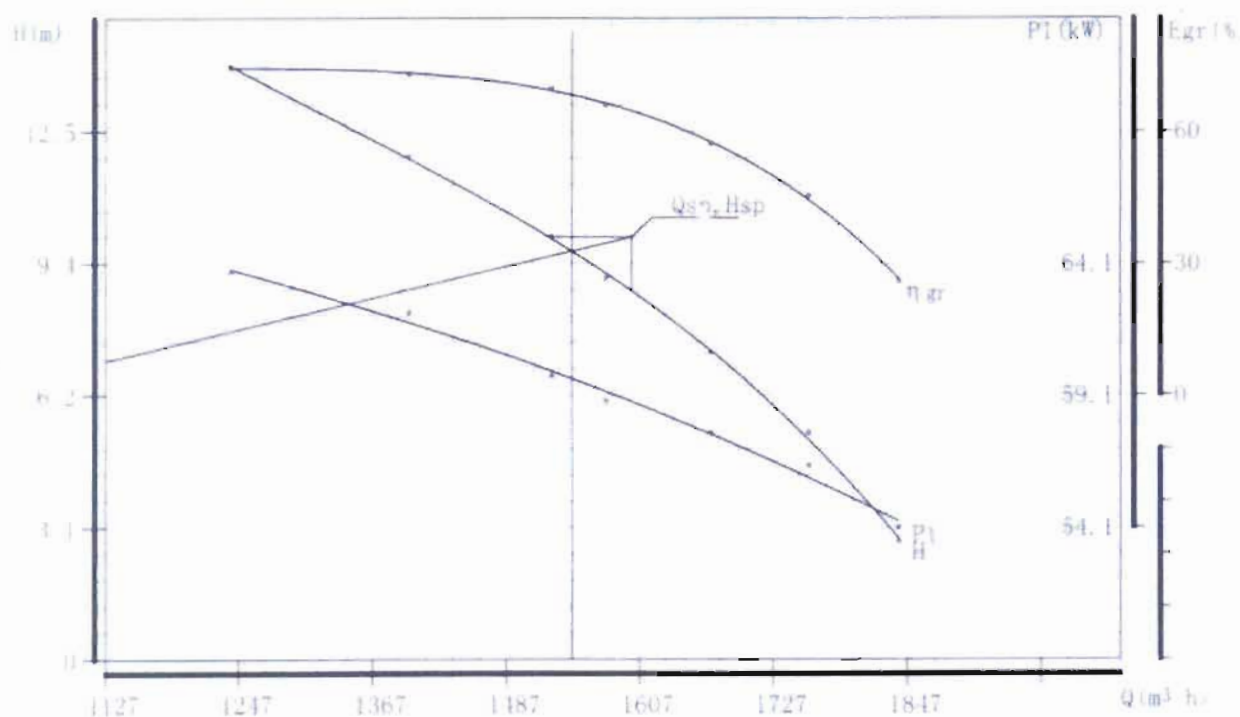
OCS has Equipment passports for individual equipments which must be reviewed before each project to assess the status. The equipment passport gives the working history, maintenance and certification history for Engines, Fluid Ends and Pump skids.

It is important to regularly review the list of critical spare parts of the equipment before each project.

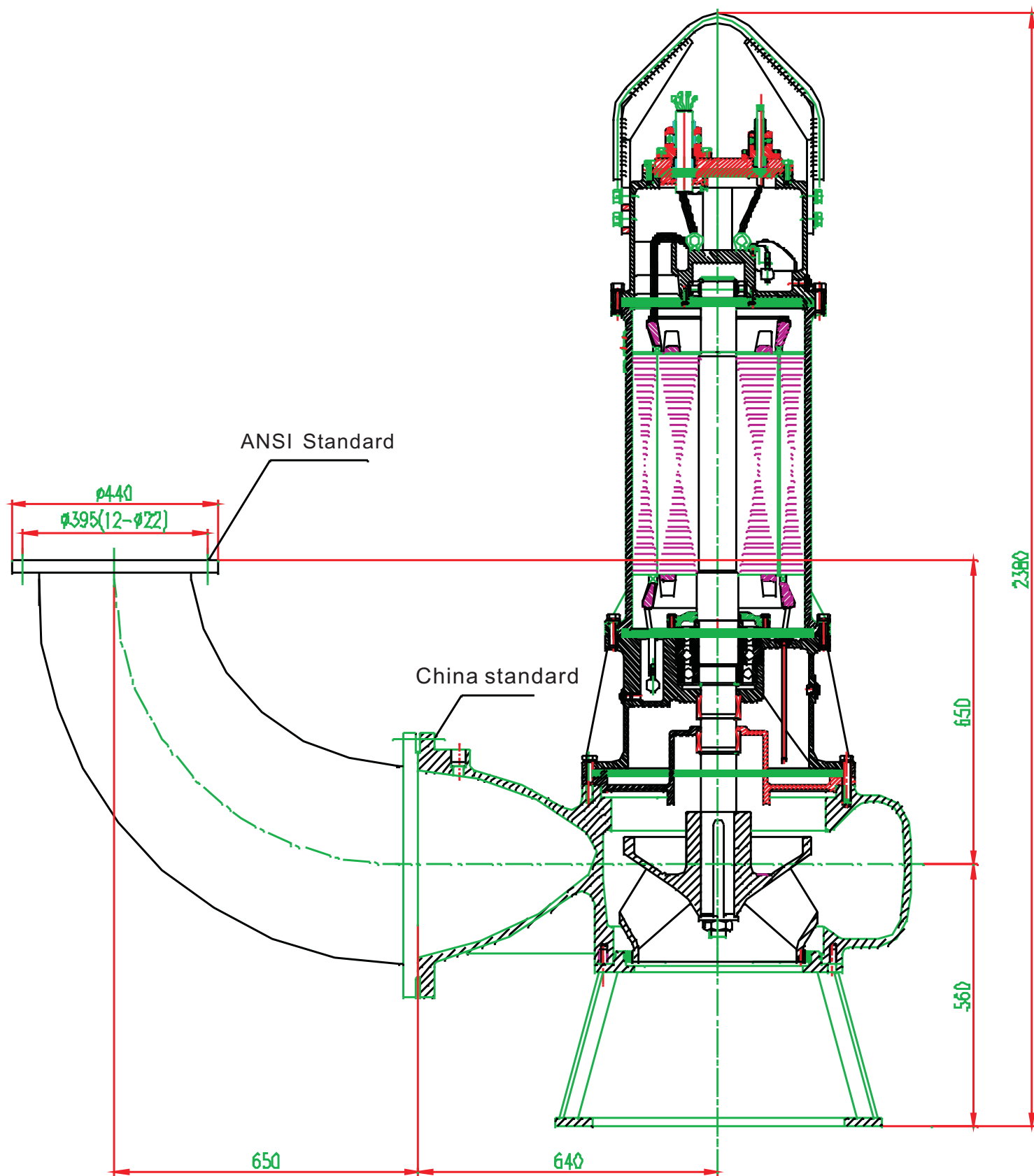
Where failures occur during operations Equipment bulletins will be issued to document the problem and the remediation solutions applied. The equipment bulletin will be circulated to all field engineers to be informed about the possible failure that can occur during the operation and thereby avoid future failure.

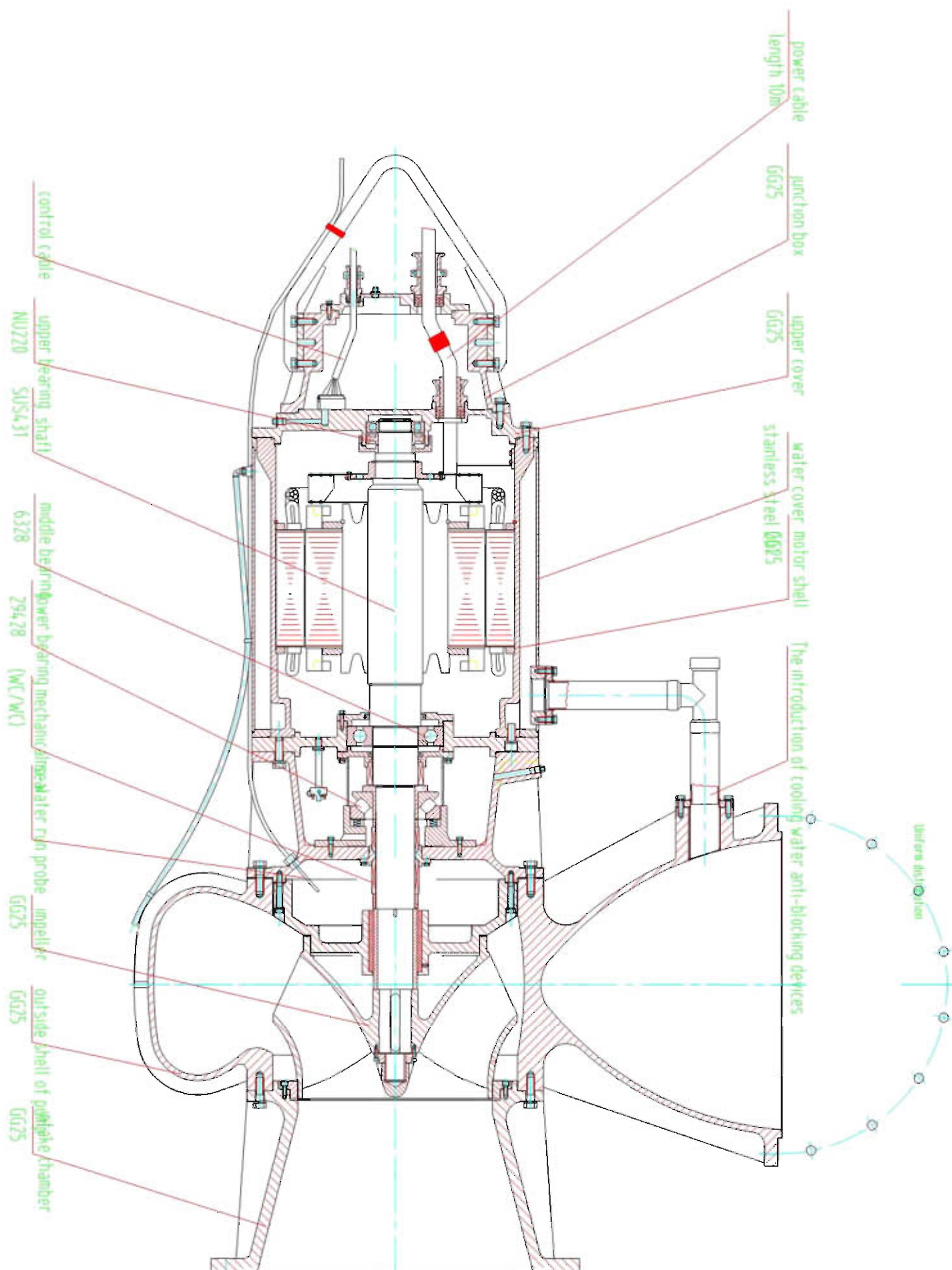
This equipment file remains a live document and will be constantly updated by the equipment department.

Tianjin Ganquan Group Corporation			Test date: 2015.10.21			
			Report No.:w151021			
Pump No.:15474	Model:400QWB1600-10-75		Submersible Pump Performance Test			
Motor Rated Data	Pump Rated Data	Insulation Resistance		Voltage(V)	Current(A)	Power(W)
Voltage:380	Head: 10m	500MΩ,500V,Qualified	No-load			
Frequency: 50Hz						
Phrase:3		Withstand Voltage Test	Locked-rotor			
Pole:6		1760V, 1 min				
Power:75kW	Flow:1600m ³ /h	Interturn Impact	ResistanceΩ	20.3℃	75℃	
Rated Current: 154.8A	Test Medium: Clean Water	5000V0.5μs, Qualified	U-V:	0	0	
Locked-rotor Current:			V-W	0	0	
Insulation Class: E	Water temp.:20.3℃	Leakage Test	W-U	0	0	



No.	Head (m)	Flow (m ³ /h)	Rotate Speed (r/min)	Current (A)	Input Power (kW)	Pump Set Efficiency	Measured Result
1	2.81	1839.78	983.0	103.95	54.104	25.99	Flow: Q=1546.43m ³ /h
2	5.37	1759.08	982.7	108.67	56.457	45.55	Head: H=9.67m
3	7.25	1671.02	981.6	110.49	57.690	57.23	Input Power: P1=59.721kW
4	9.02	1576.52	980.7	113.06	58.887	65.75	Pump Set Efficiency: Egr=68.16%
5	10.02	1527.81	979.7	114.87	59.813	69.73	Test Voltage: 380V
6	11.91	1399.68	978.8	116.04	62.229	72.97	Test By: 天津甘泉集团 检查 By: 天津甘泉集团
7	14.01	1239.61	978.5	116.50	63.776	74.17	天津甘泉集团 检查 By: 天津甘泉集团





Tianjian GanQuan Group

Sewage Pump

400QWB1600-10-75

