

A

B

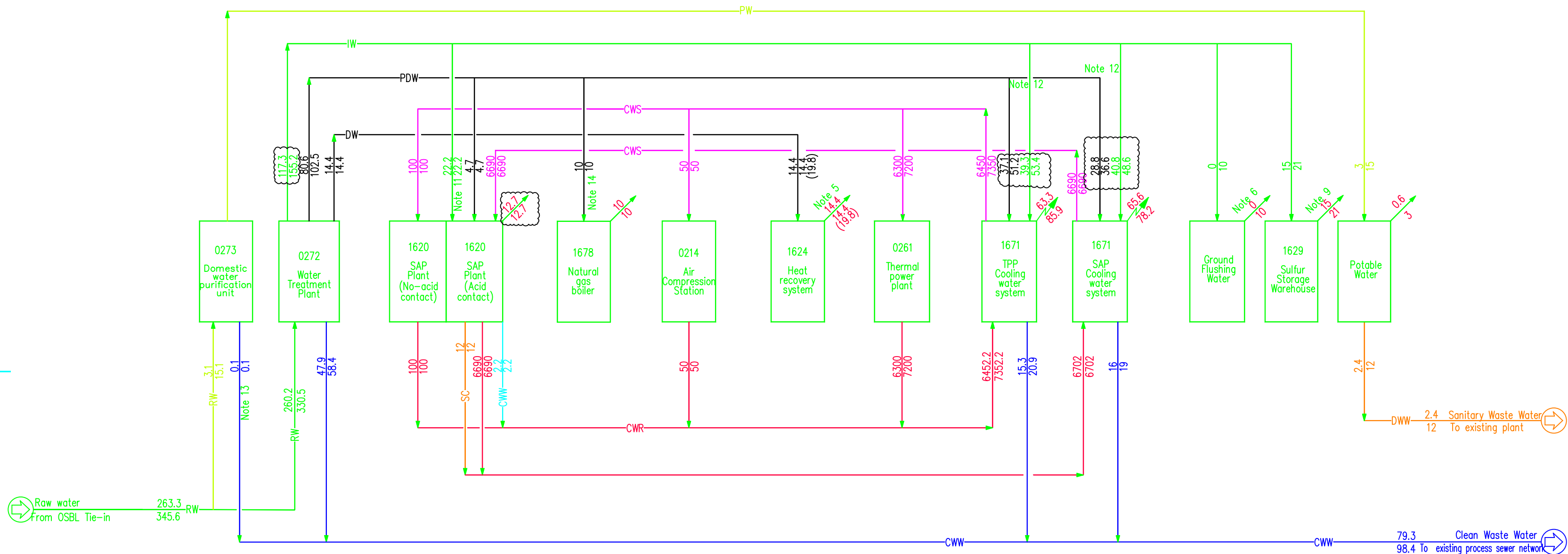
C

D

E

F

H



NOTE

- 1 xxx Indicates Normal water consumption (m³/h)
xxx Maximum water consumption (m³/h)
- 2 Take in by other systems
- 3 Loss or into process
- 4 Evaporation and wind drift loss of cooling water system
- 5 Demineralized Water to 1624 is used as makeup water for the deaerator, and come into steam/condensate system refer to Heat balance. The water flow in brackets is only for start-up and is not accounted in the normal water consumption.
- 6 Ground flushing water is intermittent, and used for all the process units where required. Rain water amount is unpredictable and not involved in production process, and not counted in the water balance.
- 7 Water take into or bring out the process refer to "material balance" of process units.
- 8 Irregular intermittent water consumption and drainage amount, as well as water consumption or drainage amount during start-up and shutdown operations, are not shown in the water balance.
- 9 Industrial water consumption of 1629 sulfur warehouse is used for dust suppression spray.
- 10 Domestic water is supplied for toilets, canteen, shower rooms and emergency showers and eye stations for overall plant.
- 11 Industrial water consumption of 1620 is used for sulfuric acid dilution.
- 12 The distribution ratio of cooling water makeup shall be adjusted according to the actual raw water quality and the tested cooling water quality.
- 13 Drainage from domestic water purification unit is intermittent backwash of filters. If the annual water quality monitoring results for the river water consistently with the Kazakhstan potable water norms, the filters and their waste water discharge can be omitted.
- 14 The primary demineralized water supplied to 1678 (Natural Gas Boiler) is used as makeup water for the hot water heating system.

LEGEND

RW	Raw Water
PW	Potable Water
IW	Industrial Water
CWR	Cooling Water Return
CWS	Cooling Water Supply
DW	Demineralized Water
PDW	Primary Demineralized Water
SC	Steam Condensate
DWW	Sanitary Waste Water
CWW	Chemical Waste Water

A01	Approved for Design	2026.04.16	Zhou Mingqi		Li Zhaojing	Xie Xuan	
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P01	Issued for Review	2025.12.10	Zhou Mingqi		Li Zhaojing	Xie Xuan	

REV.	DESCRIPTION	DATE	DESIGN	DRAW	CHECK	REVIEW	APPROVE
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OWNER: TCC CONTRACTOR: 中国天辰 CHINA TIANCHEN

Water Balance Diagram	PROJECT	Taraz Sulfuric Acid Plant 800 ktpa Project
	UNIT NAME	General
	PHASE	Feed

SCALE	/	SHEET 1	TOT. 1	SIZE A1	CONTRACTOR DWG NO.	T25B22-0000-EE05-01
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