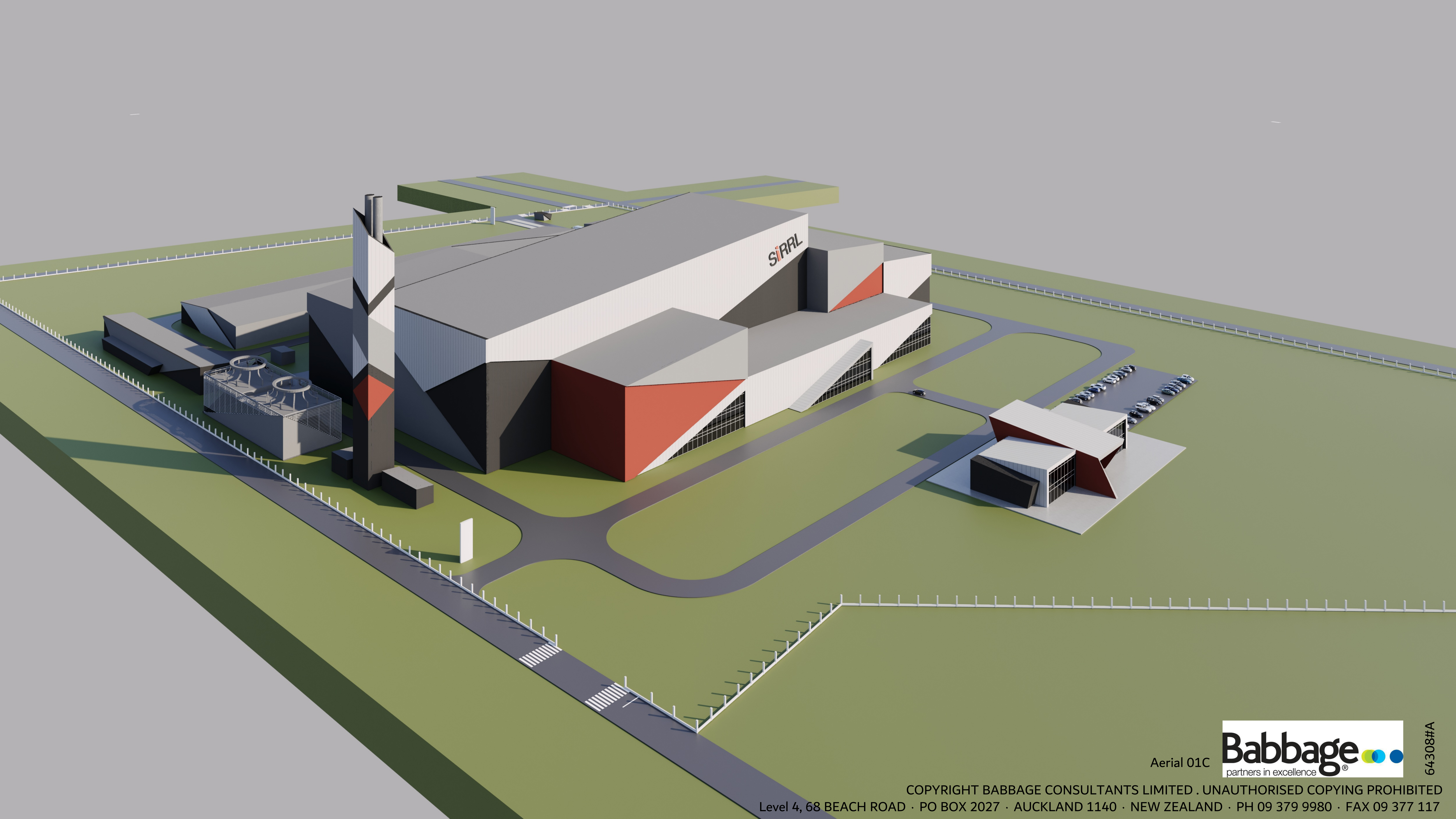


- Truck Access
- Water treatment
- Baled waste storage
- Auxiliary workshop
- Pump room
- Oil tank area
- Cooling tower
- Main power house
- Stack
- Hazardous Store
- Car Access
- Weighbridge
- Approach bridge
- Truck Unloading
- Waste Bunker
- Rail siding
- Car park
- Domestic wastewater treatment
- Drip field
- Admin building



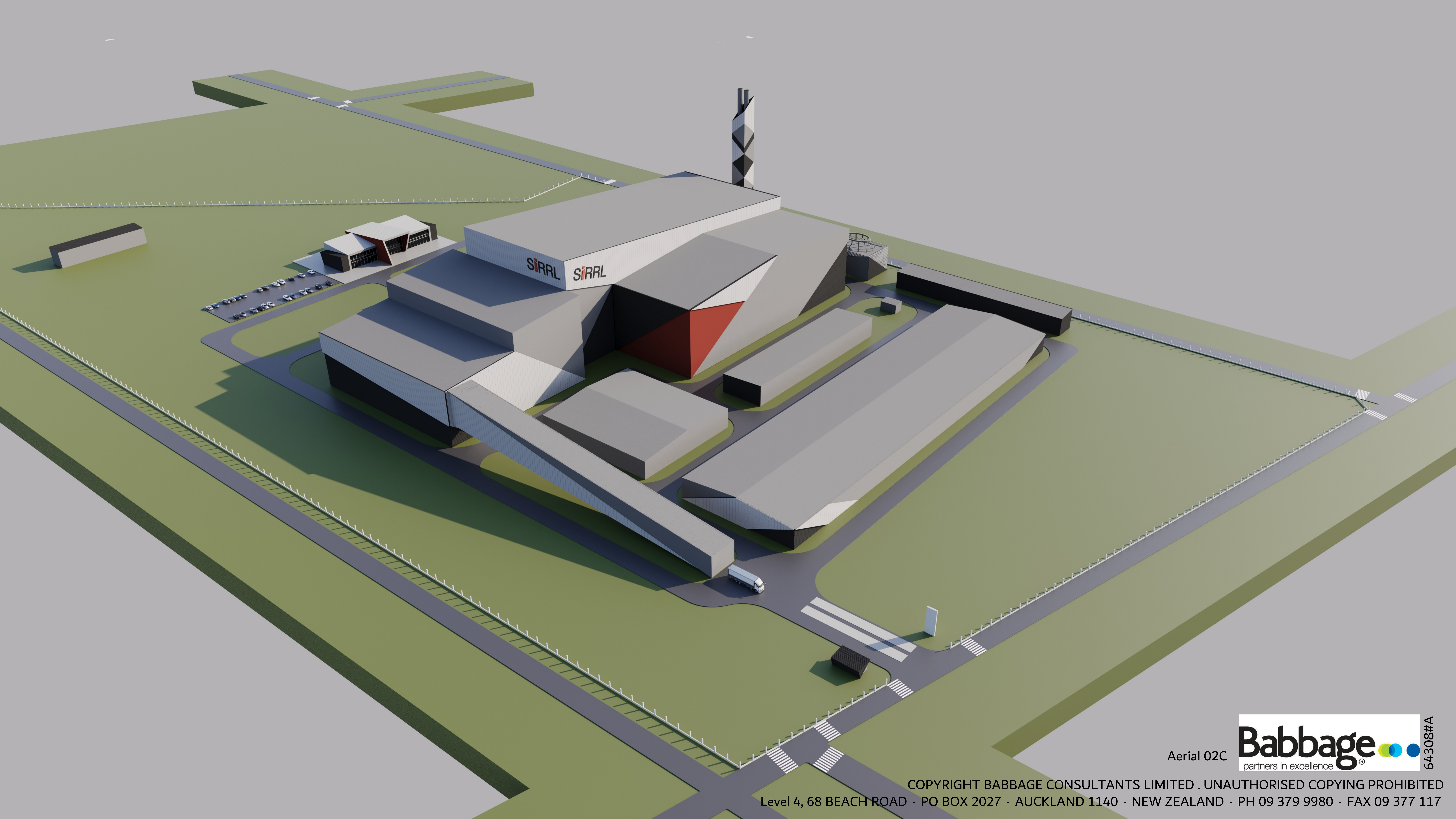
SIRAL

Aerial 01C



64308#A

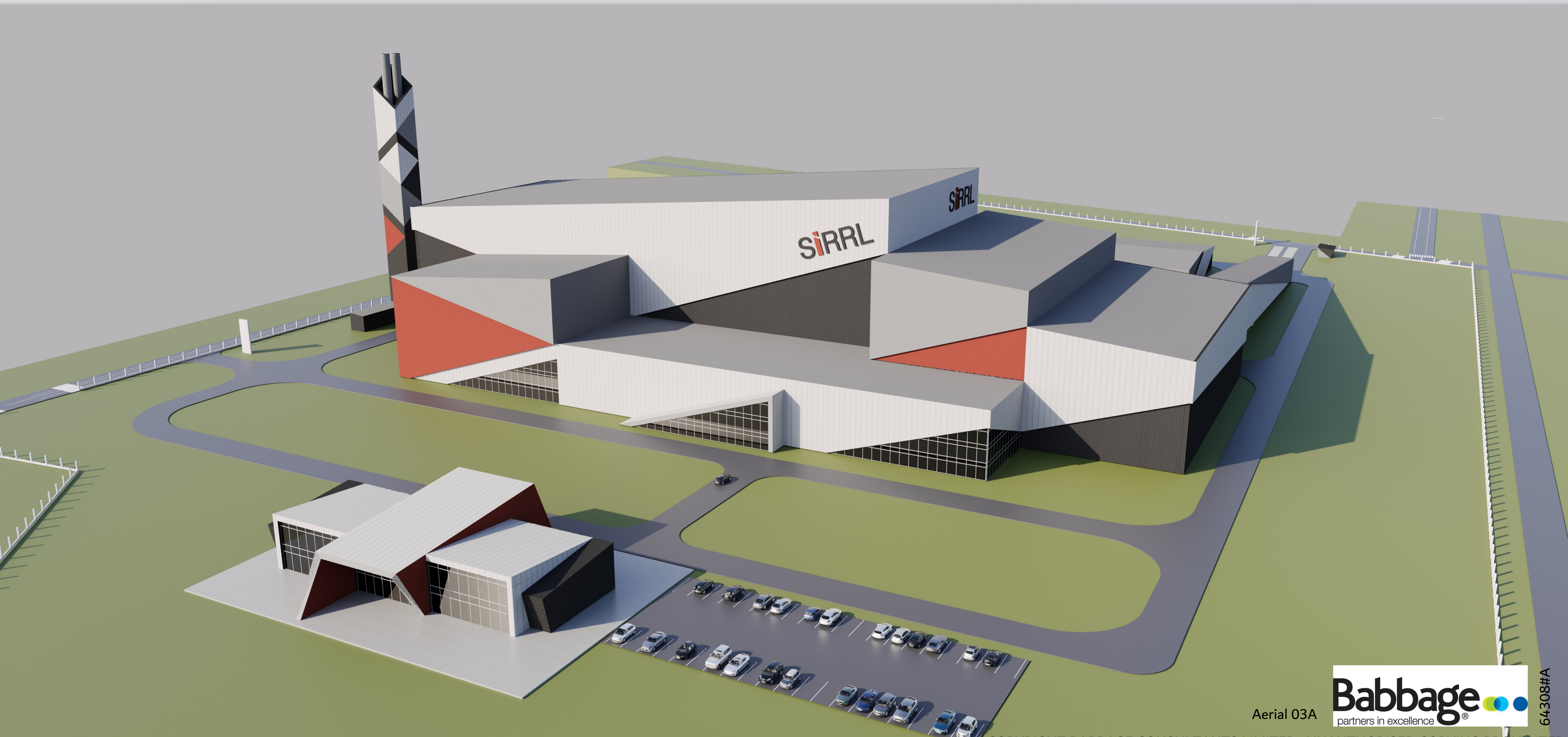
COPYRIGHT BABBAGE CONSULTANTS LIMITED . UNAUTHORISED COPYING PROHIBITED  
Level 4, 68 BEACH ROAD · PO BOX 2027 · AUCKLAND 1140 · NEW ZEALAND · PH 09 379 9980 · FAX 09 377 117



Aerial 02C



64-308#A

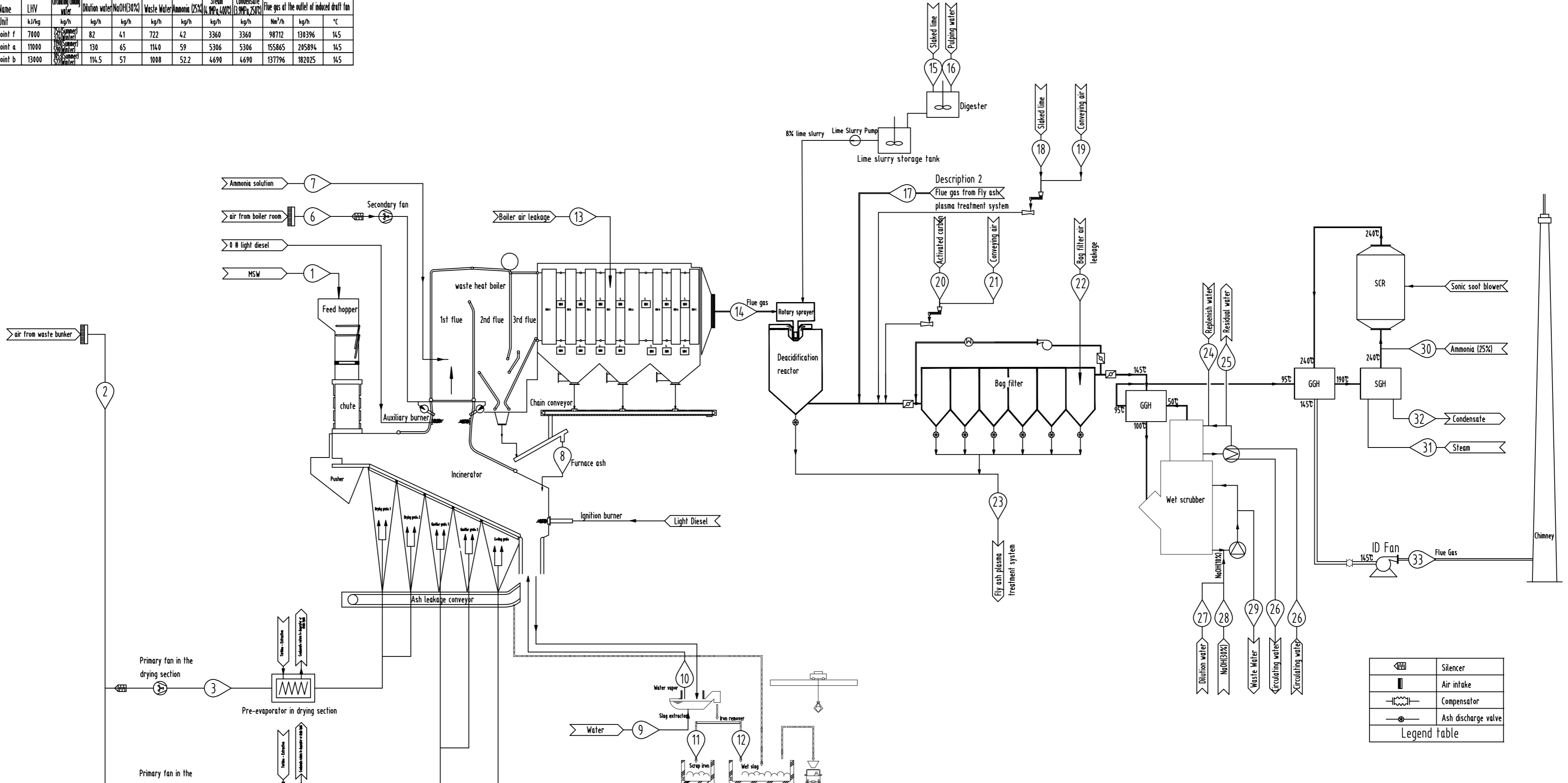


Aerial 03A



64308#A

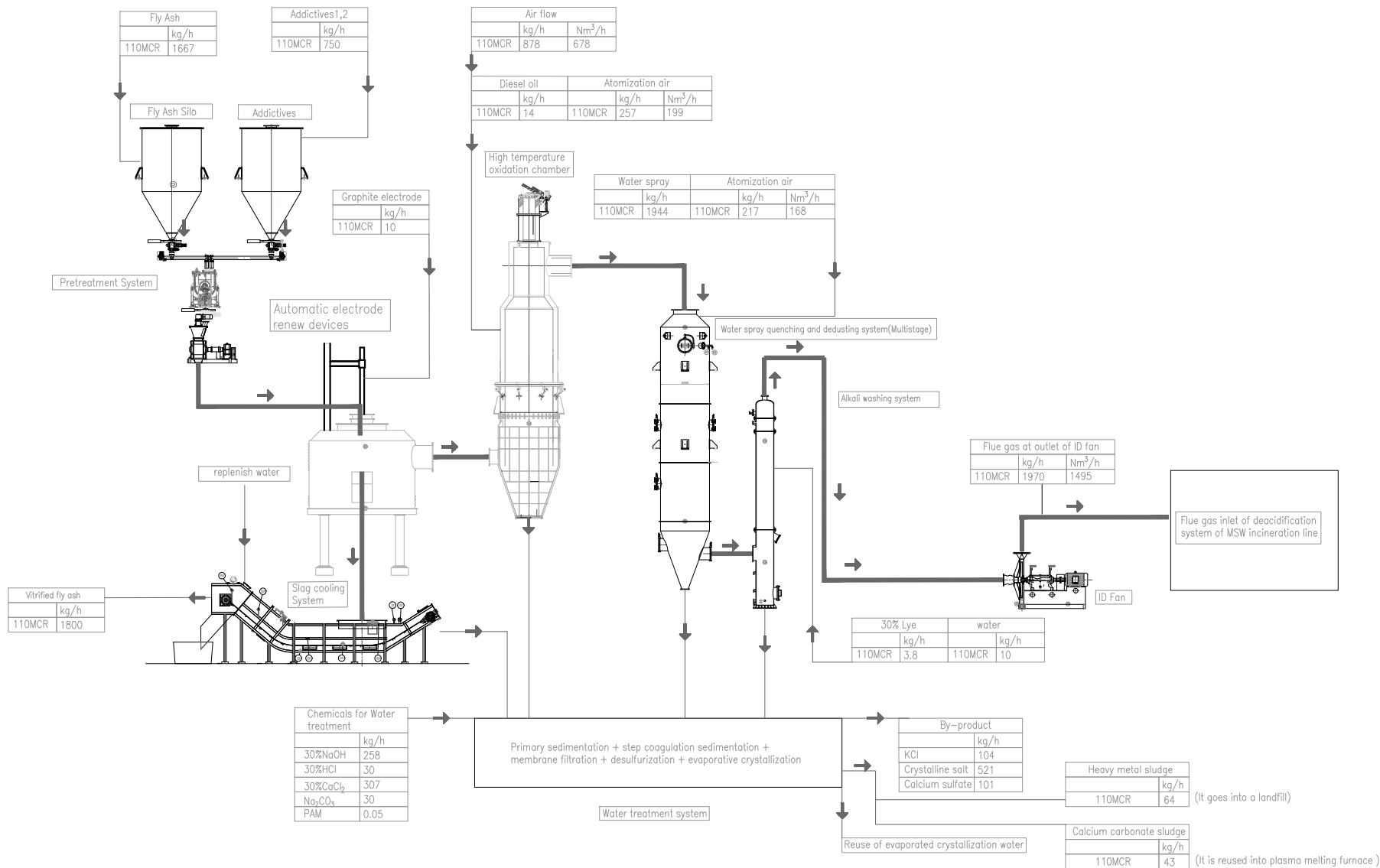
No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25																										
Name	LHV	MSW	Primary air		Primary air in drying section		Primary air in combustion section		Primary air in burnout section		Secondary air			SNCR system		Furnace ash		Water consumption of slag extractor		Water vapor		Scrap iron		Wet slag		Boiler air leakage		Flue gas at boiler outlet		Flue gas from induced draft fan of fly ash plasma system		Flue gas from induced draft fan of fly ash plasma system		Bag filter air leakage		Fly ash	Residual debris														
Unit	kJ/kg	t/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h														
Point f	7000	20.83	65943	51000	25	19653	15200	180	34911	27000	150	11378	8800	25	31832	24000	25	73	292.5	125.1	178.2	220	2213.5	25	587.7	100	358.7	60	6663.7	60	644	500	25	9280.4	124220	190	264	289	2166	1495	1970	110	103	696	8.1	122.9	3888	2945	25	535	0
Point a	11000	29.83	113784	88000	25	28466	22000	120	62964	48000	100	23274	18000	25	50427	39000	25	90	360	154.4	273.1	220	1435.7	25	519	100	229.2	60	4354.1	60	644	500	25	14659.3	196141	190	417	276	2844	1495	1970	110	139	1099	12.8	194	3888	2945	25	844	0
Point b	13000	17.63	102147	79000	25	25860	20000	120	55599	43000	100	20688	16000	25	46548	36000	25	79	316	135.5	256.2	220	1098	25	2915	100	171.2	60	3252.7	60	545	423	25	12959.9	173403	190	368	244	2514	1495	1970	110	122.8	971.6	11.3	171.6	3888	2945	25	746	0



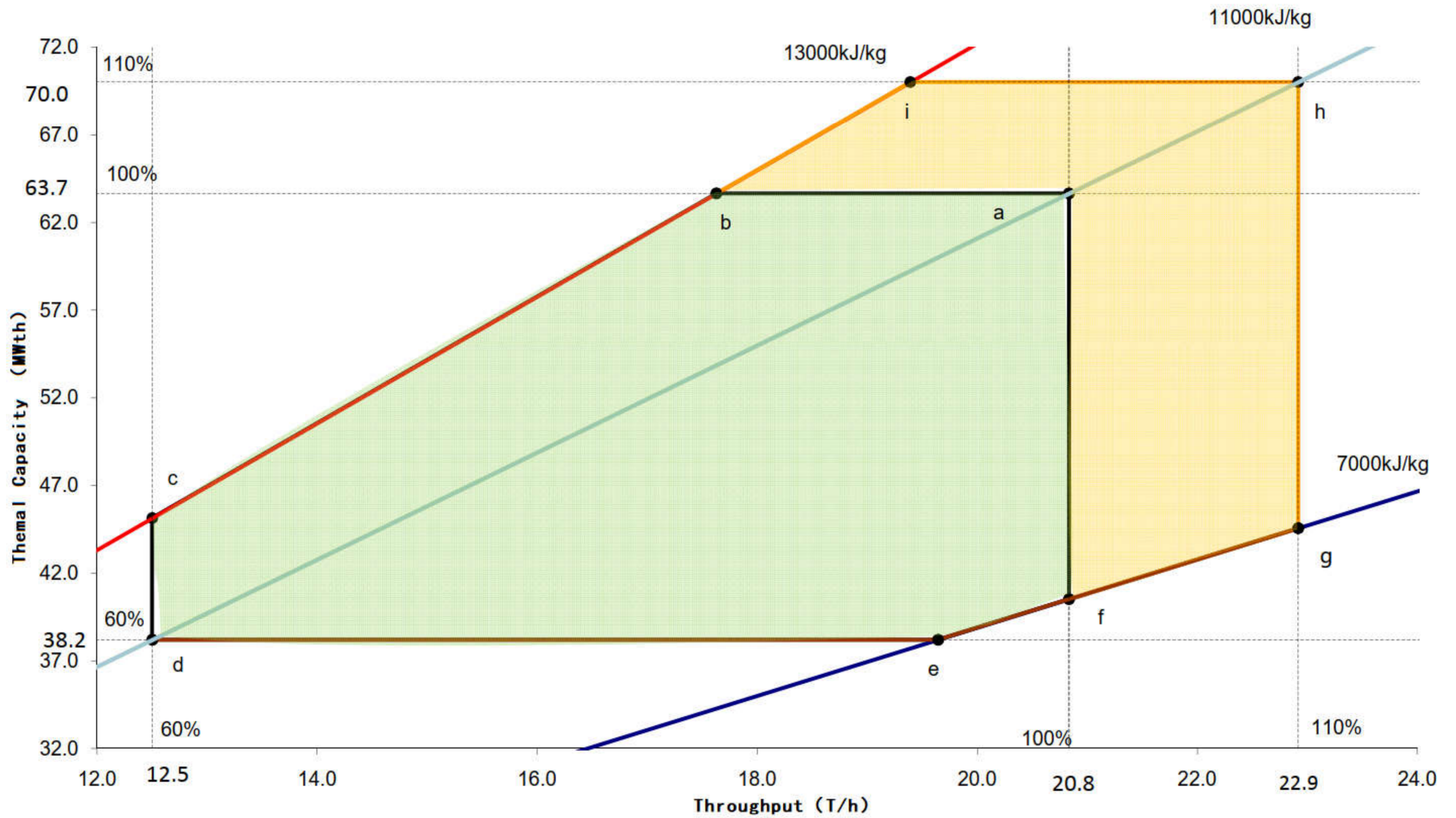
Note:

1. this drawing shows the material balance diagram of single line MCR working condition of 500t/d incinerator.
2. two 500t/d waste incineration lines are set in this project. The deacidification tower of the flue gas purification system on both lines is connected to the flue gas pipeline of the fly ash plasma system. During operation, the flue gas of the fly ash plasma system can be incorporated into any of the operating incineration lines. When the two incineration lines are shut down at the same time, the fly ash plasma treatment system is interlocked and shut down. In this figure, the flue gas volume of the fly ash plasma system is equal to the flue gas volume under the working condition of MCR point.
3. The Points f, a and b refer to the operating points in the combustion diagram.

**PRELIMINARY**  
Rev F 2022.11.11



Note: this drawing does not include circulating cooling water, demineralized water, steam, etc

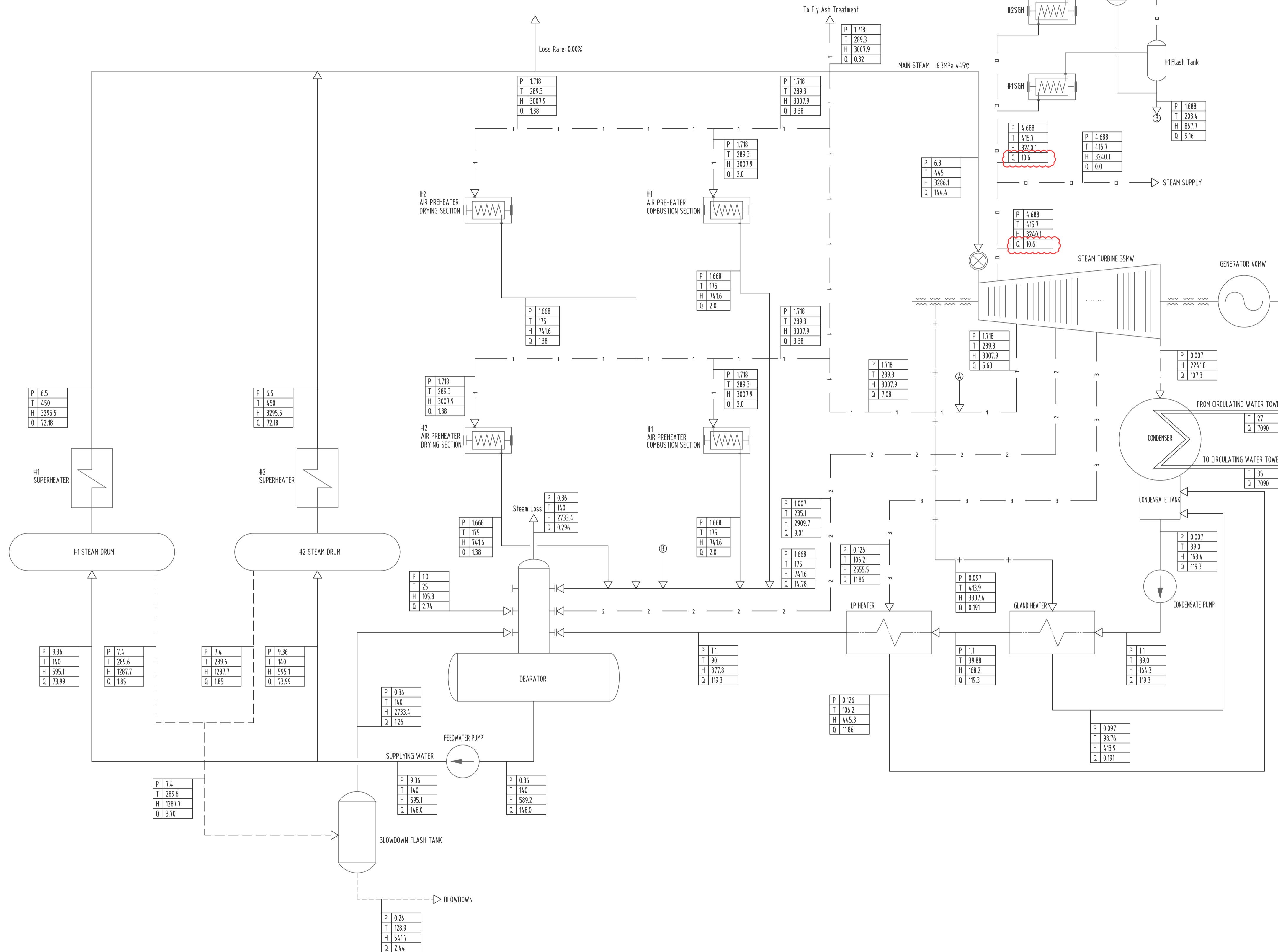


**PRELIMINARY**  
Rev B 2022.08.30

Project	KEA,Waimate,New zealand	DWG Name	Combustion diagram	DWG No.	Figure 4
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UNIT		
Quantity	Q	t/h
Pressure	P	MPa.A
Temperature	T	°C
Enthalpy	H	kJ/kg

OPERATION MODE	100%MCR
STEAM SUPPLY	0.01/h
SCR (ON/OFF)	ON
GENERATOR OUTPUT	33112KW
GEARBOX EFFICIENCY	98%
GENERATOR EFFICIENCY	97%
HRAT CONSUMPTION	10509kJ/kg
STEAM CONSUMPTION	4.36



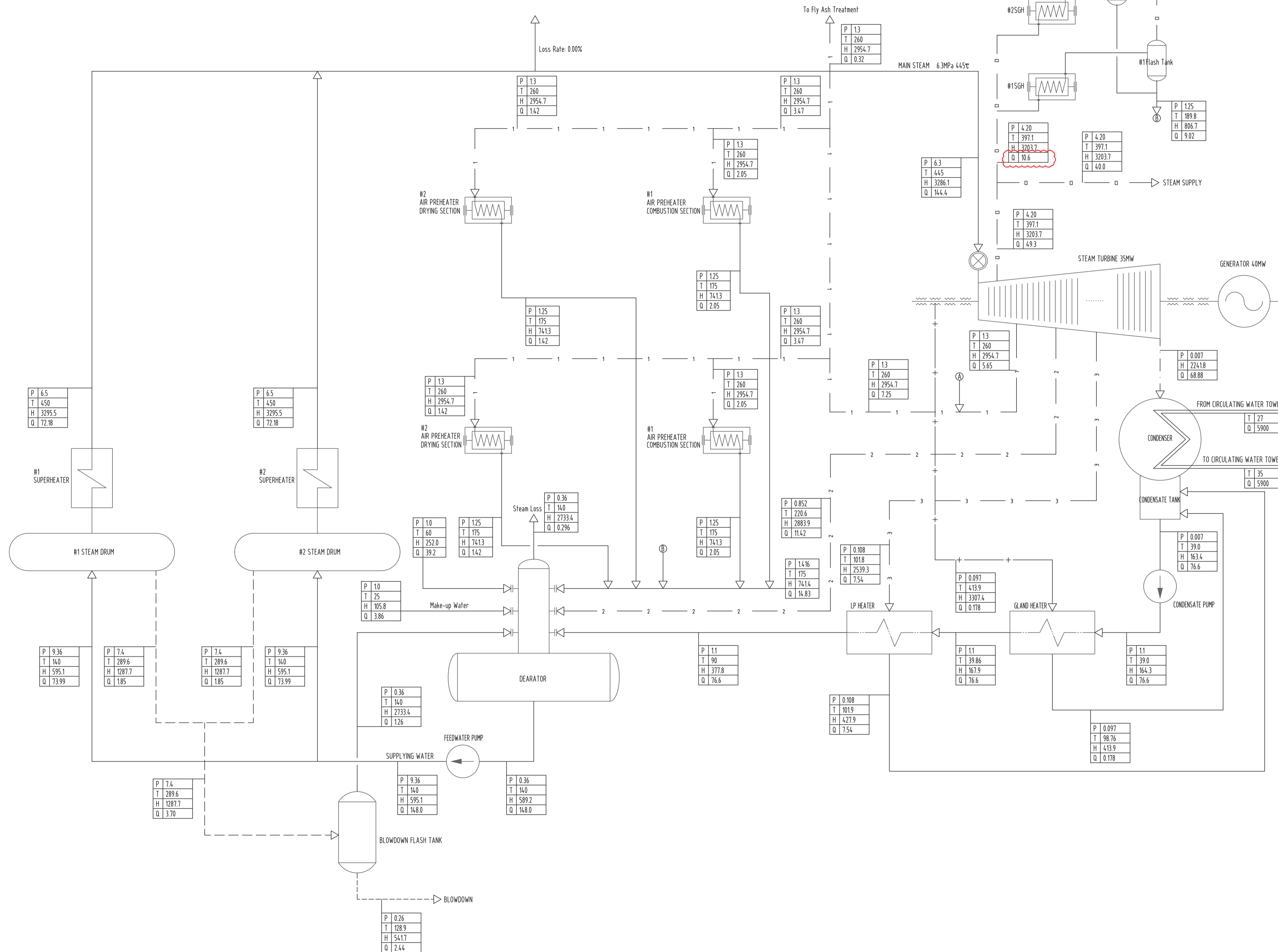
**PRELIMINARY**  
Rev C 2022.08.30

Project	KEA, Waimate, New Zealand	Name	Steam & Water Heat Balance - Case2	图号	附图十八
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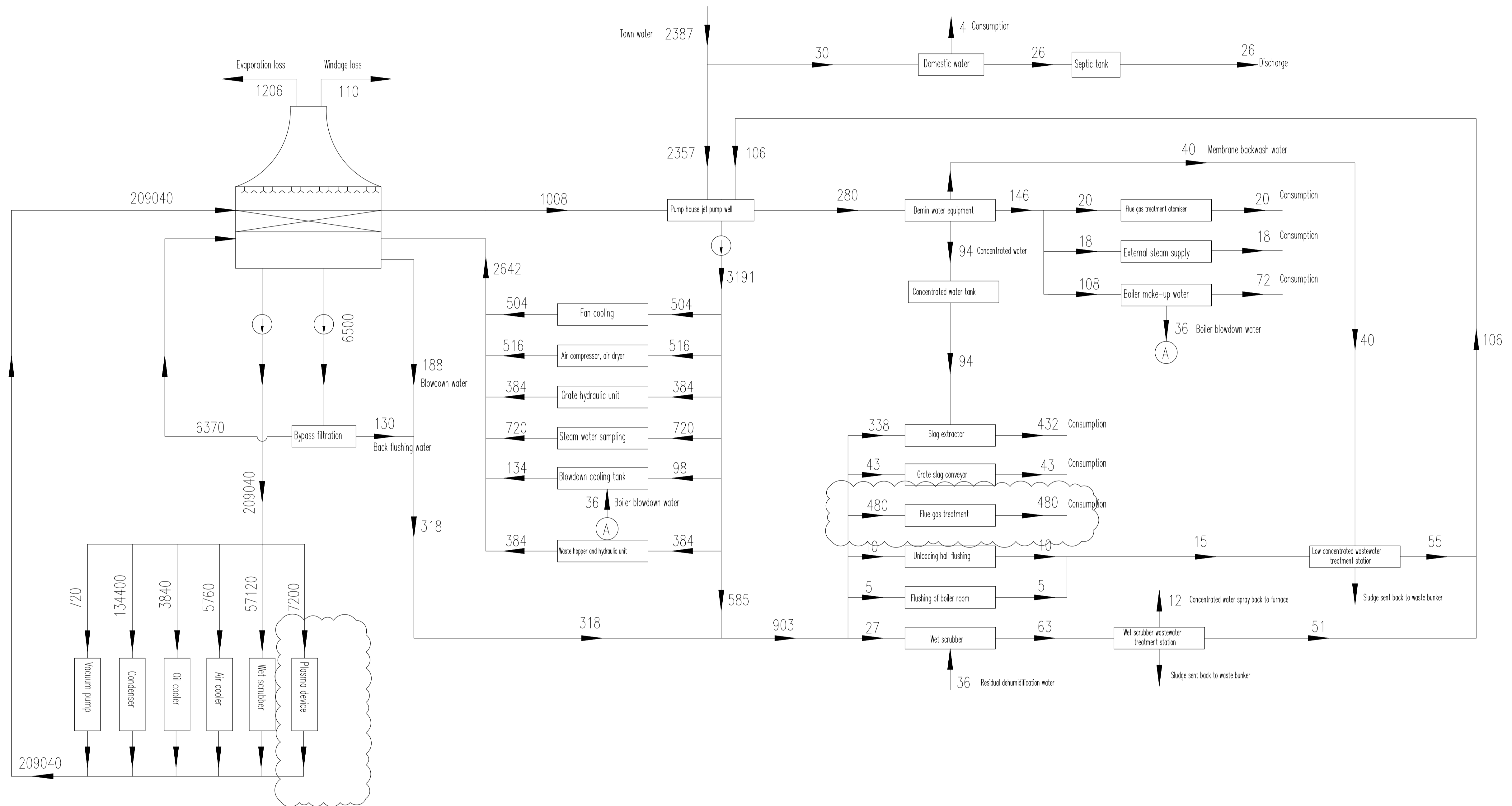
UNIT		
Quantity	Q	t/h
Pressure	P	MPa.A
Temperature	T	°C
Enthalpy	H	kJ/kg

OPERATION MODE	100%MCR
STEAM SUPPLY	40.0t/h
SCR(ON/OFF)	ON
GENERATOR OUTPUT	23367kW
GEARBOX EFFICIENCY	98%
GENERATOR EFFICIENCY	97%
HRAT CONSUMPTION	94.12kJ/kg
STEAM CONSUMPTION	6.18



**PRELIMINARY**  
Rev C 2022.08.30

Project	KEA, Waimate, New Zealand	Name	Steam & Water Heat Balance - Case3	图号	附图十八
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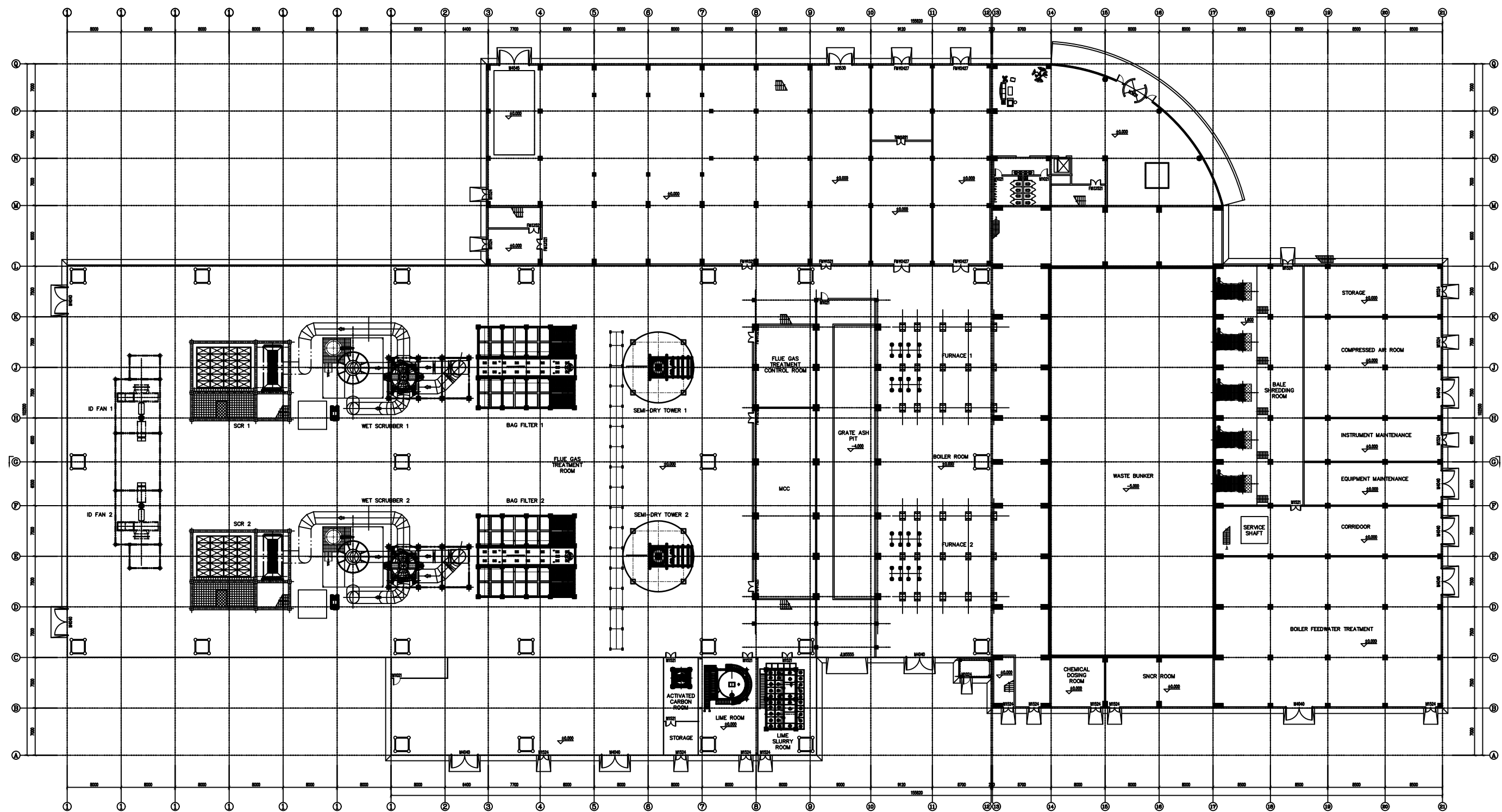


Note:

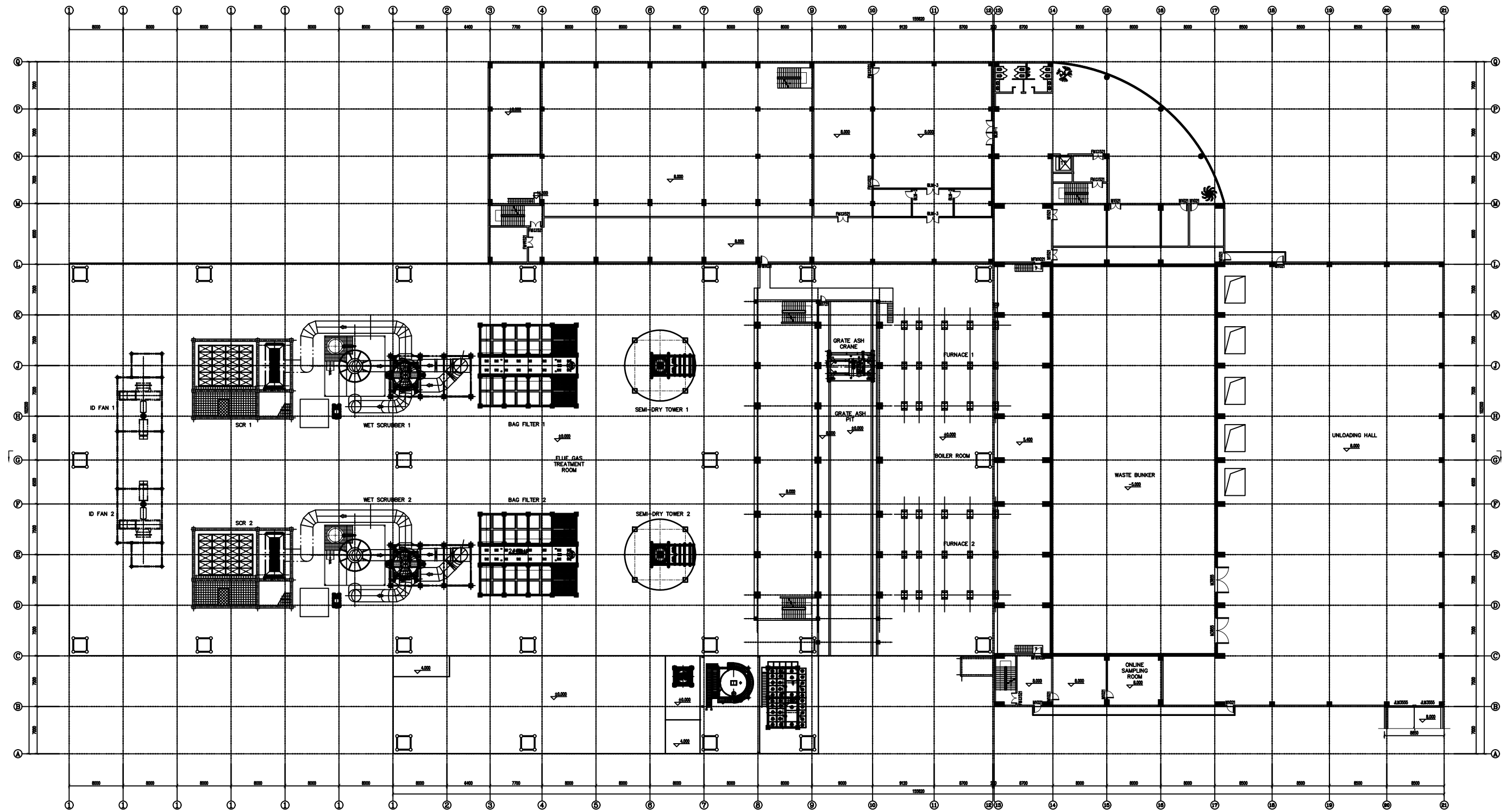
1. The unit of water consumption is t/d;
2. The circulating water in the drawing shows the daily water consumption under the rated working conditions in summer, and the concentration ratio of circulating cooling water is calculated as  $K=5$ ;
3. The waste treatment capacity of the project is 1000t/d, equipped with a 35MW pure condensing steam turbine.

**PRELIMINARY**  
Rev C 2022.06.29

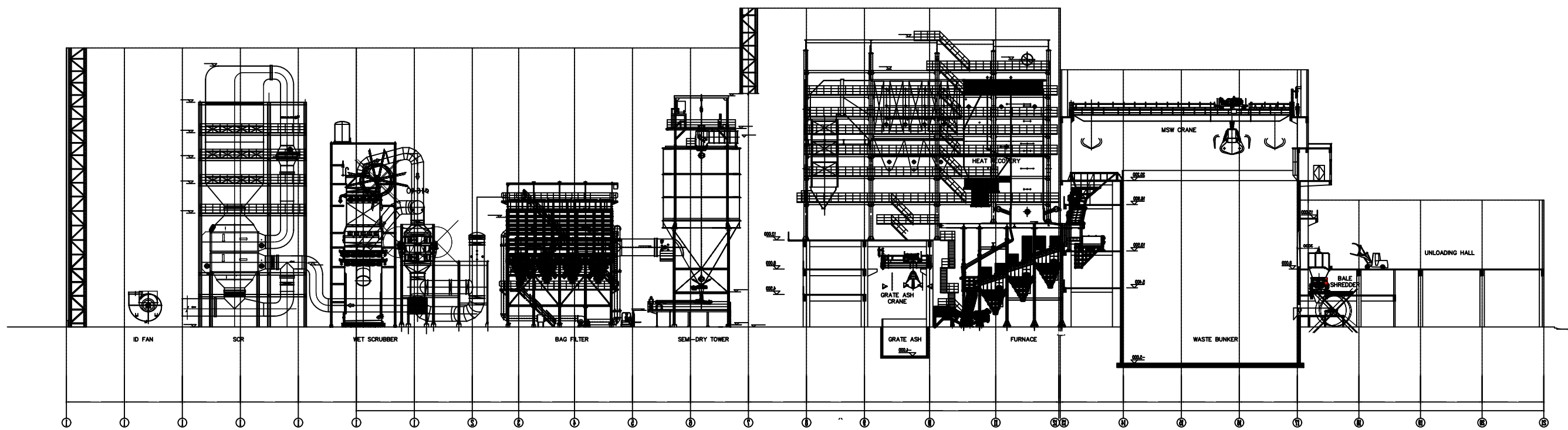
Project	KEA, Waimate, New Zealand	DWG Name	Water Balance Drawing (Pure power generation)	DWG No.	16
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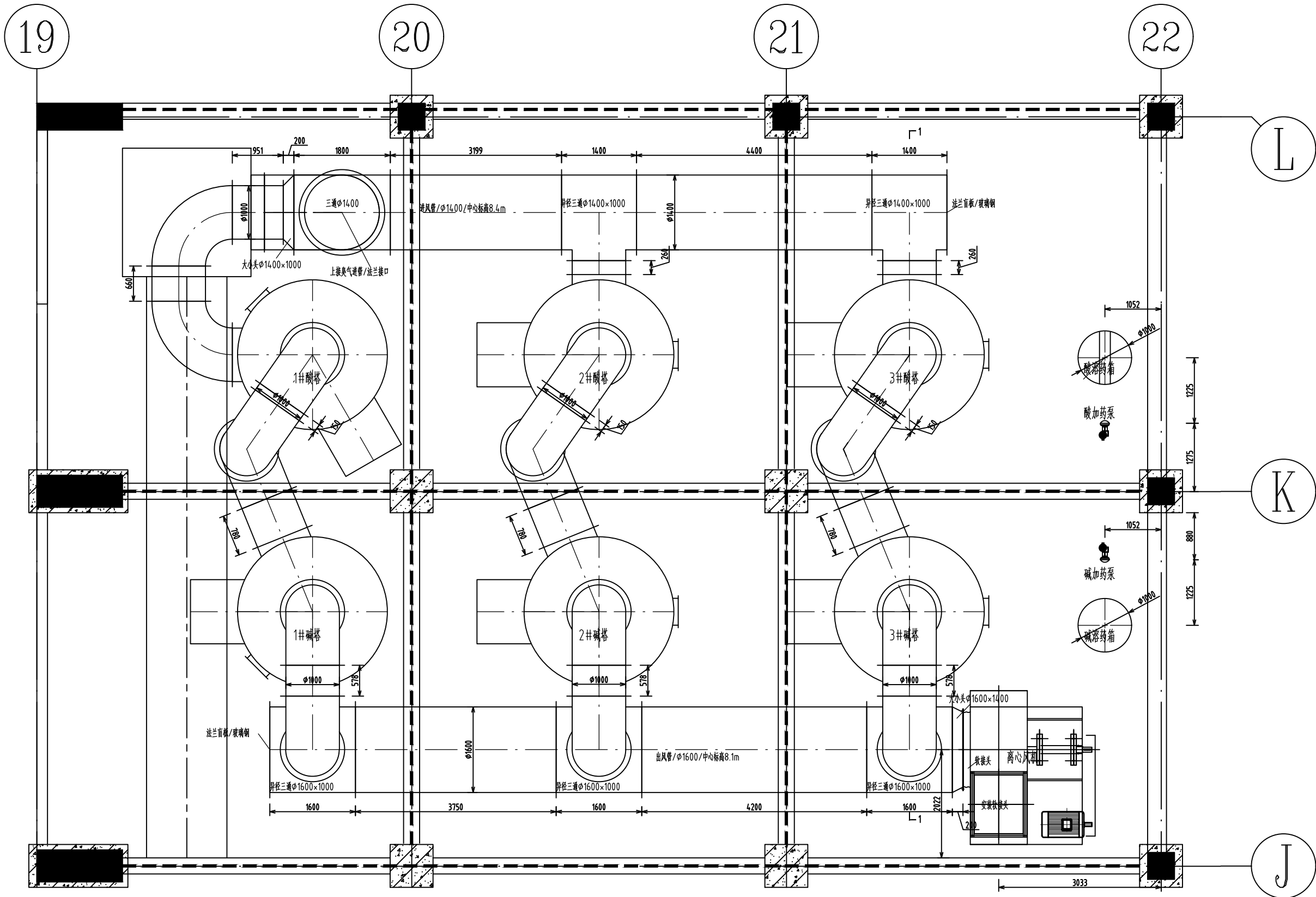
PROJECT KEA	1000TPD; WAIMATE; NEW ZEALAND	DWG NAME	EQUIPMENT LAYOUT RLO.0	DWG NO.	11
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PROJECT KEA	1000TPD; WAIMATE; NEW ZEALAND	DWG NAME	EQUIPMENT LAYOUT RL8.0	DWG NO.	12
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PROJECT KEA	1000TPD; WAIMATE; NEW ZEALAND	DWG NAME	BOILER AND FLUE GAS TREATMENT	DWG NO.	13
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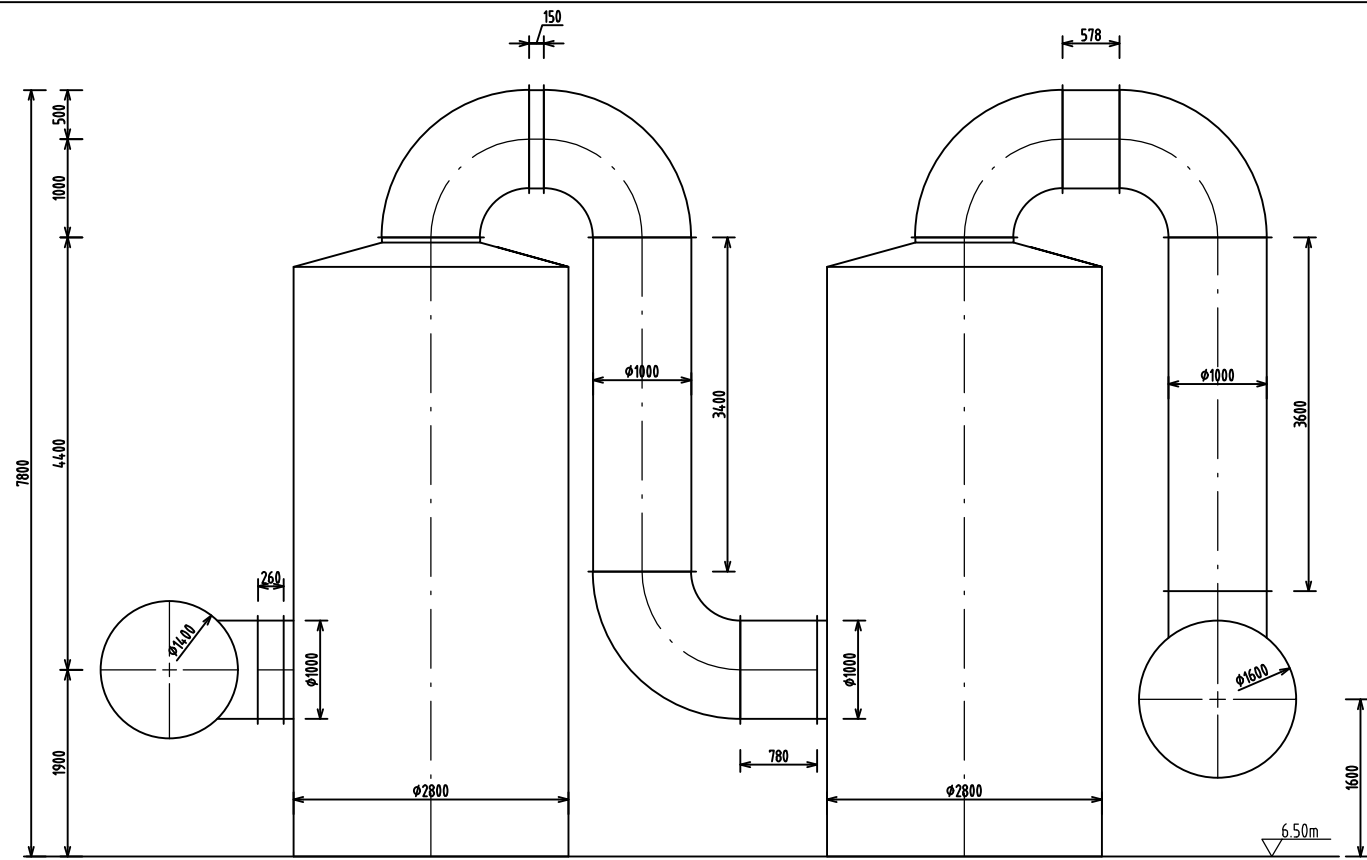


说明:

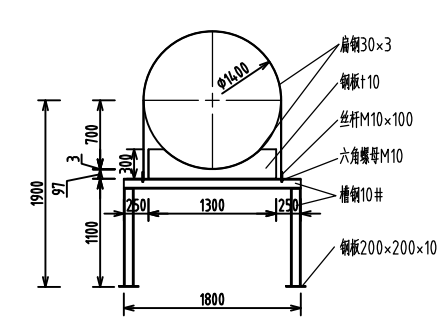
1. 风管材质玻璃钢, 安装单位施工;
2. 管件与管件、管件与设备、管件与塔、管件与管道全部法兰连接, 螺栓材质304不锈钢, 法兰对接用EVA双面自粘半密封胶, 可在EVA基础上增加涂漆硅酮密封胶, 管保证所有接口处密封严密, 不漏水、不漏气;
3. 设备位于卸料平台, 设计地坪标高6.5m.

序号	设备名称	规格型号	单位	数量	备注
1	离心风机	风量90000m <sup>3</sup> /h/风压2300Pa/90KW/右旋90°/材质钢衬玻璃钢/配进出口密闭防腐材质软接头/减震器, 风机最低处设排水口 (DN40, 单头外丝接口), 变频电机, 带独立冷却风扇	台	1	
2	酸加药泵	MS1C138C31, 流量310L/h, 压力7bar, 功率0.37kW, 过流材质PVC	台	1	
3	碱加药泵	MS1C138C31, 流量310L/h, 压力7bar, 功率0.37kW, 过流材质PVC	台	1	
4	酸溶药箱	1000L/白色/PE/配低、中、高信号输出磁翻板液位计 (需耐腐蚀), 配搅拌机 (需耐腐蚀)	台	1	
5	碱溶药箱	1000L/白色/304/配低、中、高信号输出磁翻板液位计, 配搅拌机	台	1	
6	塔	风量30000m <sup>3</sup> /h/喷淋量120m <sup>3</sup> /h (2台7.5kW液下泵)/塔规格Φ2800*6300, 配低、中、高液位信号输出磁翻板液位计, 材质玻璃钢	座	6	1、2、3#酸塔, 1、2、3#碱塔

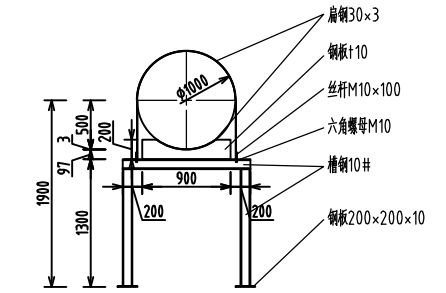
江苏天楹环保能源成套设备有限公司				建设单位	
				工程名称	
				图号	版本
批准		项目负责人		除臭风管平面布置图 (供参考)	
核定		专业负责人			
审核		设计			
校对		制图			
比例	1:50	日期			



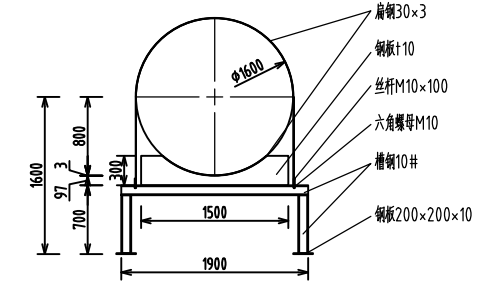
1-1



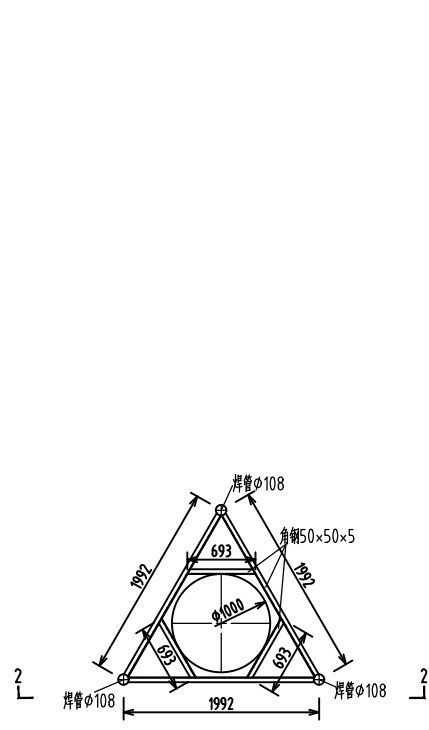
支架1



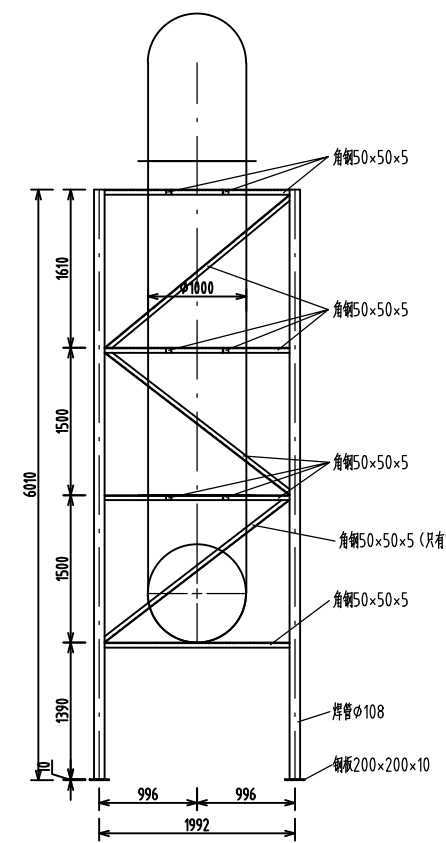
支架2



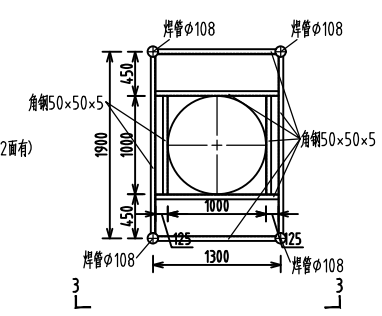
支架5



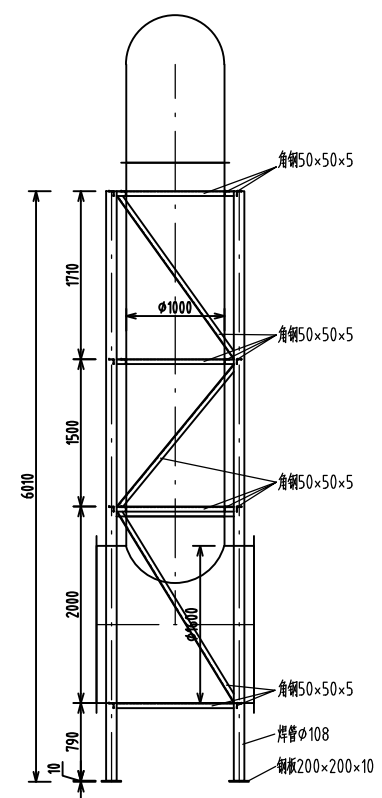
支架3



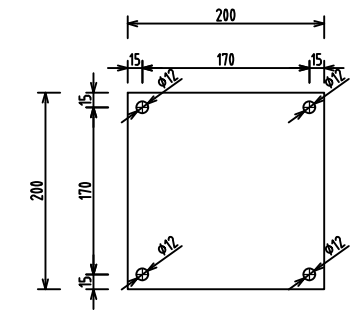
2-2



支架4

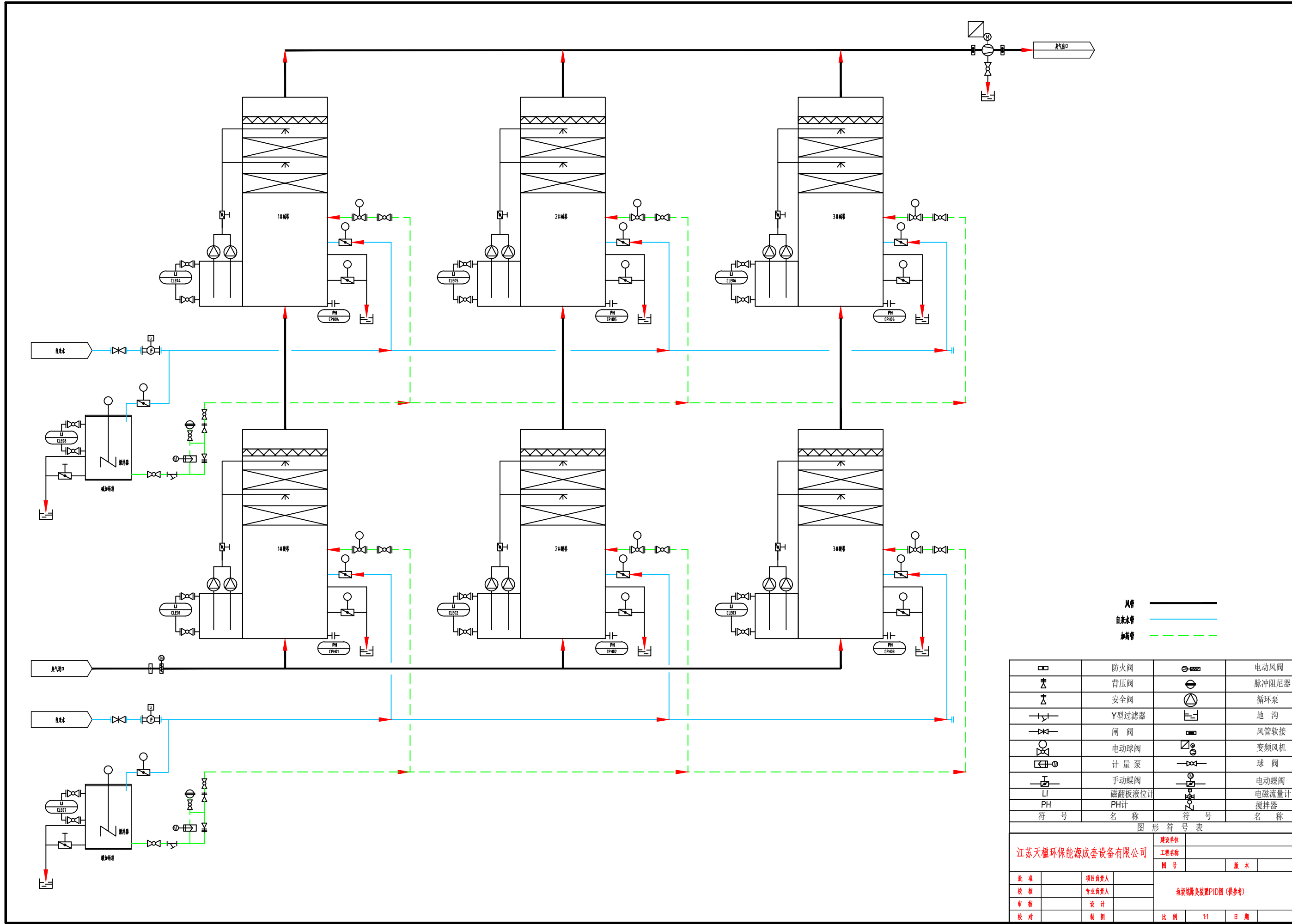


3-3



200x200x10钢块开孔示意图

江苏天楹环保能源成套设备有限公司				建设单位	
				工程名称	
图号		版本		除臭风管立面图(供参考)	
批准	项目负责人				
核定	专业负责人				
审核	设计				
校对	制图	比例	1:50	日期	



风管 —————  
 自来水管 —————  
 加药管 - - - - -

	防火阀		电动风阀
	背压阀		脉冲阻尼器
	安全阀		循环泵
	Y型过滤器		地沟
	闸阀		风管软接
	电动球阀		变频风机
	计量泵		球阀
	手动蝶阀		电动蝶阀
	磁翻板液位计		电磁流量计
	PH计		搅拌器
符号	名称	符号	名称

图 形 符 号 表

江苏天楹环保能源成套设备有限公司		建设单位	
		工程名称	
		图号	版本
批准	项目负责人	垃圾焚烧臭装置PID图(供参考)	
审核	专业负责人		
审核	设计		
校对	制图		
比例	1:1	日期	



