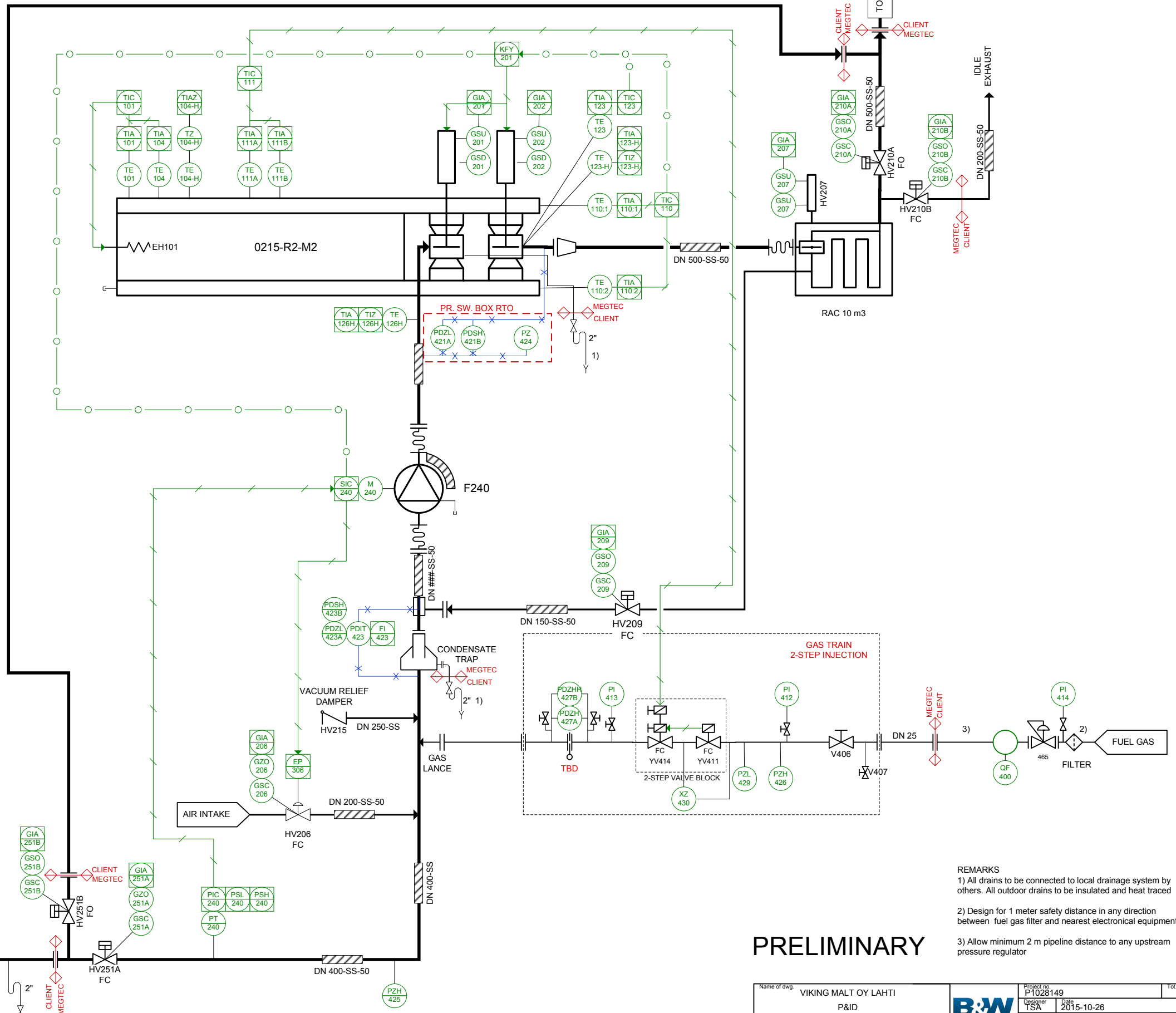


DESIGN DATA			
PROCESS GAS			
Solvents	MALT ROASTING MIX		
Normal solvent load	0-2	g/Nm ³	
Max peak solv load incl fuel inj	25	% of LEL	
Normal temperature	100-200	Deg C	
Max design temperature	250	Deg C	
IDLING FLOW including:			
fresh air flow	1,000	Nm ³ /h	
	1,000	Nm ³ /h	
TRIP FLOW including:			
	800	Nm ³ /h	
MIN FLOW including:			
process flow	1,400	Nm ³ /h	
RAC recirculation flow	400	Nm ³ /h	
fresh air flow	---	Nm ³ /h	
BREAK FLOW 1:st → 2:nd:			
process flow	1,800	Nm ³ /h	
RAC recirculation flow	400	Nm ³ /h	
fresh air flow	---	Nm ³ /h	
MAX FLOW including:			
Process max flow	4,400	Nm ³ /h	
RAC recirc flow (future expansion)	400	Nm ³ /h	
fresh air flow	---	Nm ³ /h	
FUEL GAS			
TYPE	Natural gas		
PRESSURE supply	90	mbar	
CAPACITY	20	Nm ³ /h	
ENERGY CONTENT	50	MJ/kg	
1:st STEP INJECTION	5.5	Nm ³ /h	
2:nd STEP INJECTION	12	Nm ³ /h	



- REMARKS
- 1) All drains to be connected to local drainage system by others. All outdoor drains to be insulated and heat traced
 - 2) Design for 1 meter safety distance in any direction between fuel gas filter and nearest electrical equipment
 - 3) Allow minimum 2 m pipeline distance to any upstream pressure regulator

PRELIMINARY

Name of dwg.	VIKING MALT OY LAHTI	Project no.	P1028149	Tot. weight	
	P&ID	Designer	TSA	Date	2015-10-26
	0215-R2-M2-HT-37FD-NG-PT-10RAC	Approved		Scale	
Unless otherwise specified: Tolerance system acc. to ISO SS 2768-1 m for machining. SMS 723-A for welded parts. Dimensions are in mm.		Drawing no.	10028149-2004	Rev.	P3