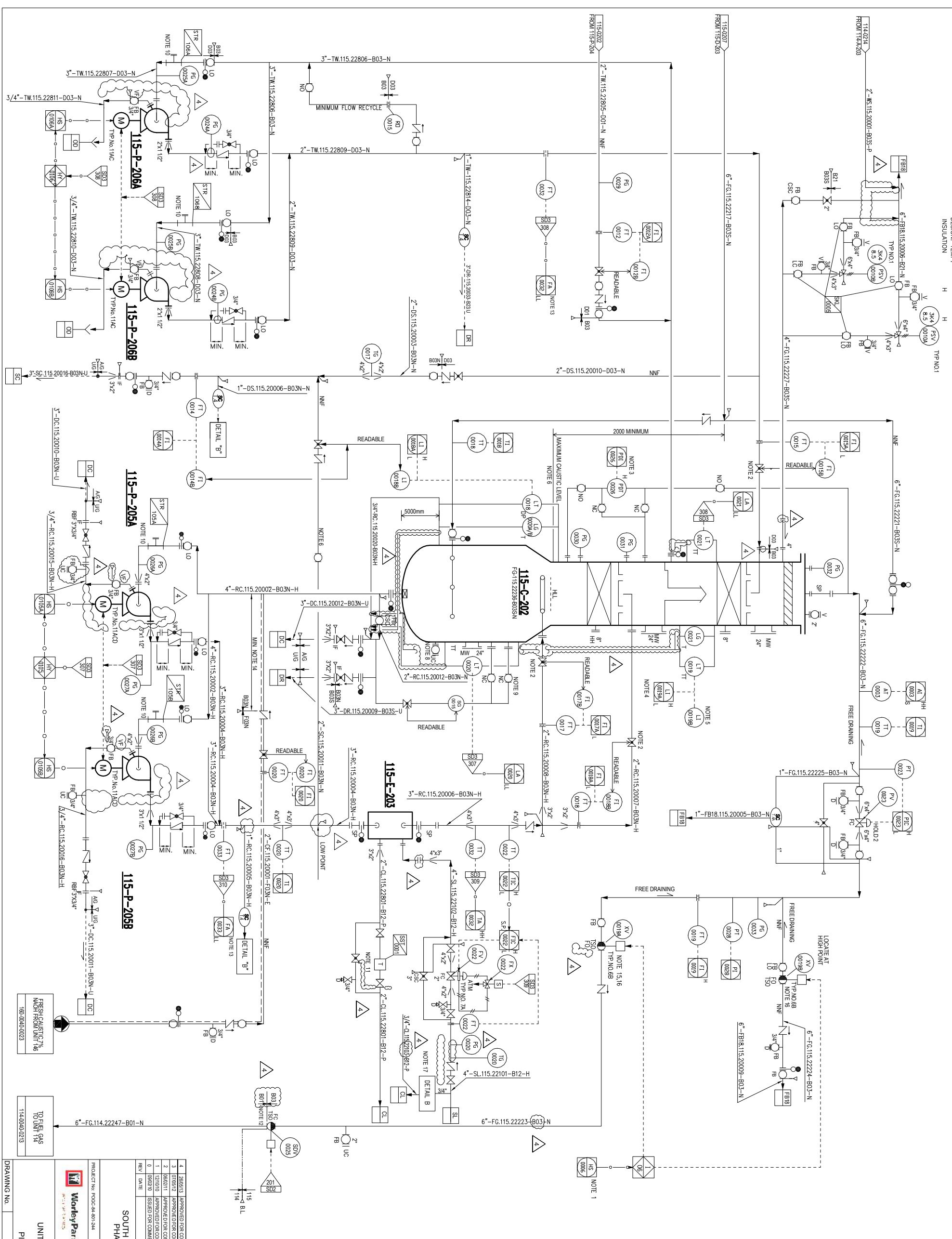


ITEM TYPE CAPACITY DIFF. PRESS. ABSORBED POWER	115-P-206 A/B (2x100%) WATER CIRCULATION PUMPS CENTRIFUGAL 91 m ³ /h 2.1 bar 1.7kW	ITEM SERVICE TYPE DUTY/SURFACE DESIGN. PRESS. INSULATION	115-E-203 WATER CIRCULATION HEATER DOUBLE PIPE 0.347 MW/6.2 m ² SHELL TUBE 14.3barg 11.0 barg 85°C 270°C H H TYP NO:1 3/4" 8.5" 6" 4"x3"	ITEM SERVICE TYPE ID/TL/LL DESIGN. PRESS. INSULATION	115-C-202 SCRUBBER TOP:800mmx12000mm BOTTOM:2400mmx3800mm 8.5 barg TOP/9.4 barg BOT/TV 85°C YES
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ITEM TYPE CAPACITY DIFF. PRESS. ABSORBED POWER	115-P-205 A/B (2x100%) WATER CIRCULATION PUMPS CENTRIFUGAL 13.6m ³ /h 3.5 bar 4.7kW
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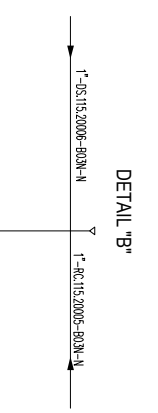


- ### NOTES
- 1- OPERATOR SHOULD BE ABLE TO SWITCH FROM FUEL GAS TO FLARE DURING NORMAL OPERATION IN CASE OF SCRUBBER UPSET.
 - 2- VALVE WITH MECHANICAL LIMIT STOP IN ORDER TO AVOID FULL CLOSURE OF VALVE
 - 3- INSTRUMENT SHALL BE SELF-DRAINING.
 - 4- HLL MUST BE DEFINED AT CHIMNEY TOP. TOWER WILL BE OPERATED UNDER AT HLL/HIGH LIQUID LEVEL.
 - 5- LI TO BE READABLE FROM GLOBE VALVE ON DIAMETERALIZED WATER.
 - 6- FOR CAUSTIC INVENTORY REMOVAL OPERATION.
 - 7- DELETED.
 - 8- NO STEAM-OUT IS ALLOWED IF CAUSTIC SODA IS NOT PROPERLY REMOVED FROM SCRUBBER.
 - 9- FOR HC PHASE DRAINING SWAMING.
 - 10- FOR FILTER ARRANGEMENT REFERR TO TABLE 'A' ON PID-1718-999-020-0008.
 - 11- STEAM TRAP.
 - 12- FIRE RESISTANT VALVE ALL INSTRUMENTS, BOX PROTECTION TUBING, CABLES ETC. WILL BE SELECTED AND CLASSIFIED ACCORDING TO THIS PROTECTION.
 - 13- ON LOW FLOW LIQUIDITY PUMP IS STOPPED AND STANDBY PUMP STARTED.
 - 14- WATER 30 SECONDS FLOW REMAINS LOW LOW, PUMPS ARE TRIPPED.
 - 15- 4.0 BAR SET POINT BE INSTALLED ON THE AIR CIRCUIT FOR OPENING AND CLOSING POSITIVE CLOSE TO OPEN TO CLOSE 12 MINUTES APPROXIMATELY. OPENING AND CLOSING TIME BE TUNABLE IN ORDER TO BE ADJUSTED ON SITE.
 - 16- RISING STEM BALL VALVE.
 - 17- DRP LEG FOR DETAIL 'A' REFER TO PID-1718-986-000-0001.

- ### HOLDS
1. DELETED.
 2. DELETED.
 3. DELETED.

GENERAL NOTES

ALL INSTRUMENT TAGS TO READ:
LETTERS NUMBER
1152 FFF NNNN



EQUIPMENT LIST

COLUMN	PUMPS	EXCHANGER
115-C-202	115-P-206A/B	115-E-203
115-P-205A/B		

UTILITY PID NUMBER

DC	PD-1718-986-004-0205	SL	PD-1718-986-004-0201
DR	PD-1718-986-004-0205	CL	PD-1718-986-004-0201
FB18	PD-1718-986-004-0204		
SC	PD-1718-986-004-0205		

PROJECT NO: POC-24-801-244	DOC CLASS: 1	SCALE: N/A
UNIT 115: BUTANE TREATMENT AND DRYING CAUSTIC SCRUBBER (TRAIN 2) PIPING AND INSTRUMENT DIAGRAM		
DRAWING NO.	PID-1718-115-0030-0208	REVISION: 4