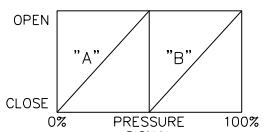


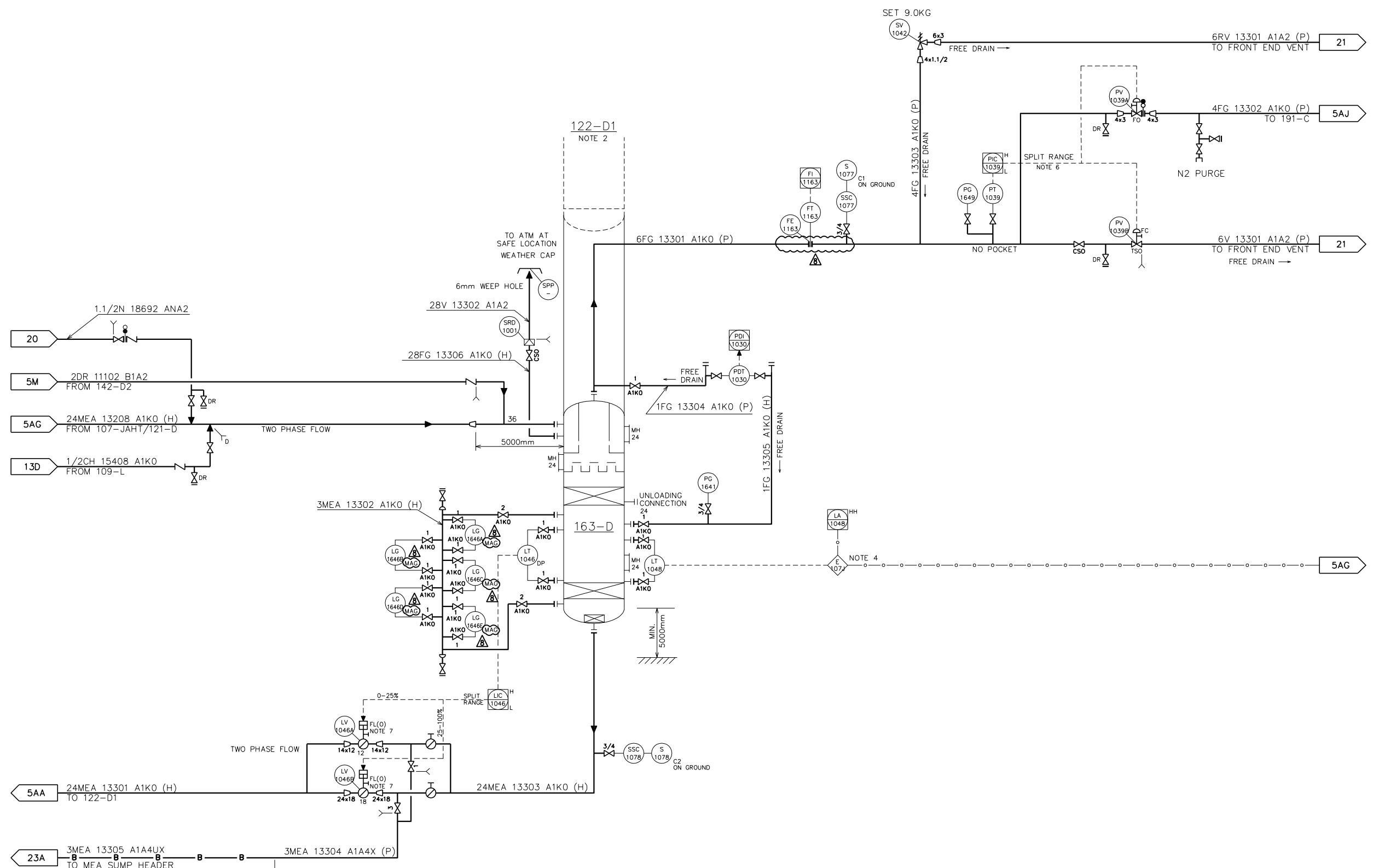
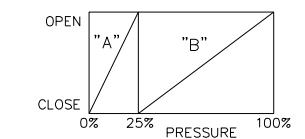
163-D	
HP FLASH COLUMN	
DES./OPER.TEMP. °C 120/84	
DES./OPER.PRESS. kg/cm <sup>2</sup> G 9/7.6	
INSULATION/THICK. mm HOT/50	
MATERIAL TOP : CS+304L SS CLAD	
DIMENSION (IDx(TL-TL)) mm 5900x17750	
VOLUME m <sup>3</sup> 459	

## NOTES

1. FOR GENERAL NOTES AND SYMBOLS SEE DRAWING 4A, 4B.
2. 122-D1 LOCATED ON 5AA.
3. DELETED.
4. REFER TO WRITE UP BY CONTROL SYSTEMS ENGINEERING FOR INTERLOCK DESCRIPTION.
5. DELETED.
6. PV-1039A, B CONTROL SEQUENCE.



## 7. LV-1046A, B CONTROL SEQUENCE.



RE-ISSUED FOR CONSTRUCTION (AFC-1)	TS	ABA	DU	HOM	ANS	HK	US	OL	14/11/13
RE-ISSUED FOR CONSTRUCTION (AFC-2)	TS	ABA	DU	HOM	ANS	HK	US	OL	28/06/13
RE-ISSUED FOR CONSTRUCTION (AFC-3)	TS	ABA	DU	HOM	ANS	HK	US	OL	10/06/13
ISSUED FOR CONSTRUCTION (AFC)	EB	ABA	DU	RW	AM	SHL	US	OL	26/11/12
ISSUED FOR APPROVAL (AFD-1)	EB	ABA	DU	RW	U	SHL	US	OL	29/06/12
ISSUED FOR APPROVAL (AFD-2)	EB	ABA	DU	RW	U	SHL	US	OL	29/06/12
ISSUED FOR DETAIL DESIGN (AFT-2)	EB	ABA	JW	YSH	BOP	HN	SH	OL	14/06/12
ISSUED FOR DETAIL DESIGN (AFT-3)	EB	ABA	JW	YSH	BOP	HN	SH	OL	14/06/12
REVISIONS									

PROJECT NAME : KALTIM-5 PROJECT  
2500 MTPD AMMONIA AND 3500 MTPD UREA  
BONTANG, EAST KALIMANTAN, INDONESIA

CLIENT NAME : PUPUK KALTIM  
PT. PUPUK KALIMANTAN TIMUR

Engineering Services by  
KBR Technical Services, Inc.

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CONTRACTOR : ISSUE MARK :  
PT. INIKRAYA PURBA TEKNIK Toyo Engineering Corporation 14-Nov-13

CONTRACTOR WORK NUMBER : 10107 / BA096300 / 11-018-01

PIPING & INSTRUMENT FLOW DIAGRAM  
H.P. FLASH DRUM

SCALE : DWG. NO. K5-01-E1-PD-5AH-T

DOC. NO. K5-01-E1-PD-035-T SHEET 035/073 REV.8