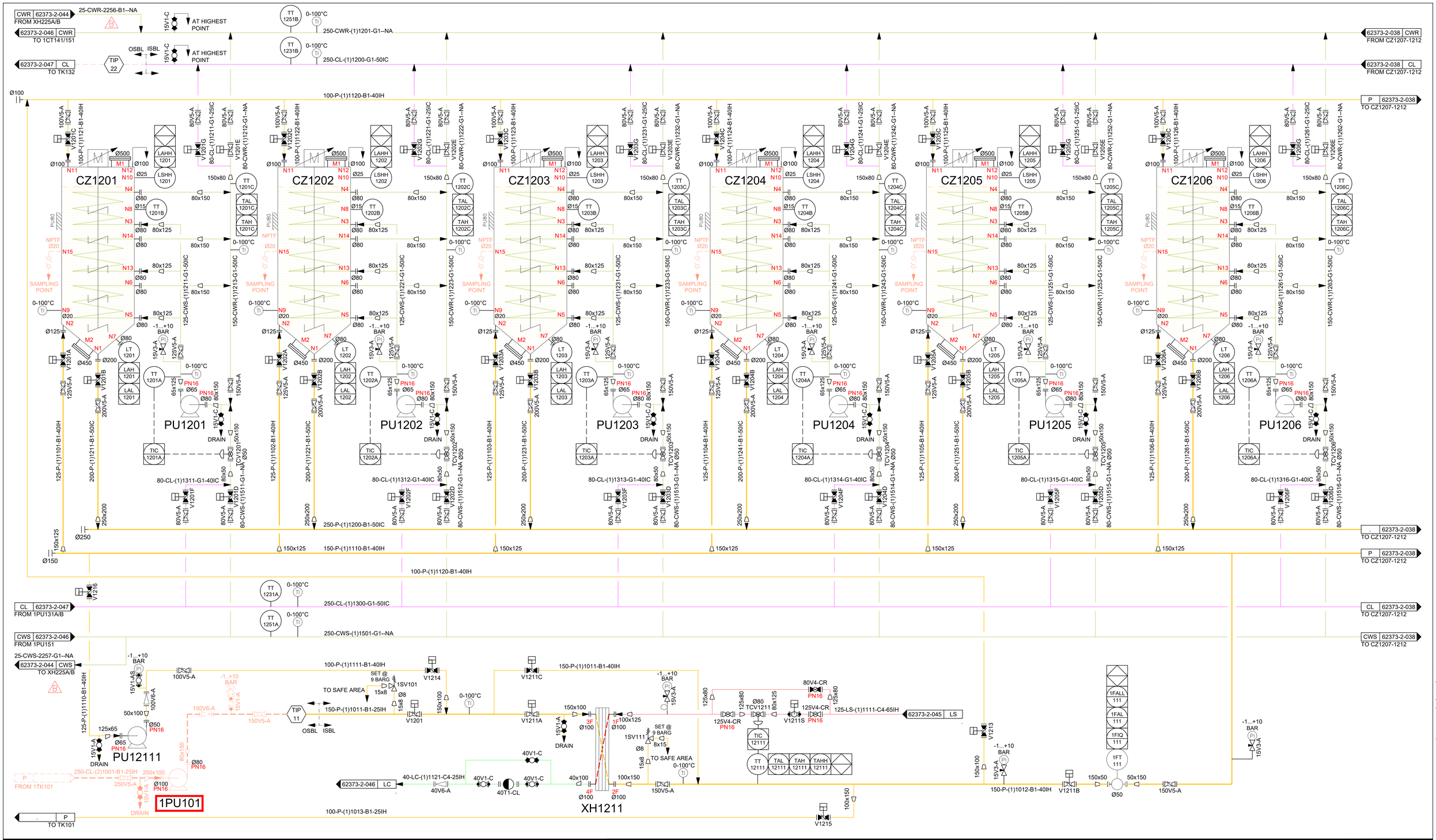

NOTES

NO.	DESCRIPTION	DATE	BY	CHK'D
2.	REVISED AS SHOWN (B)	041018	DZF	
1.	REVISED AS SHOWN (A)	180718	DZF	

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PT. MULTIMAS NABATI ASAHAN (SERANG)

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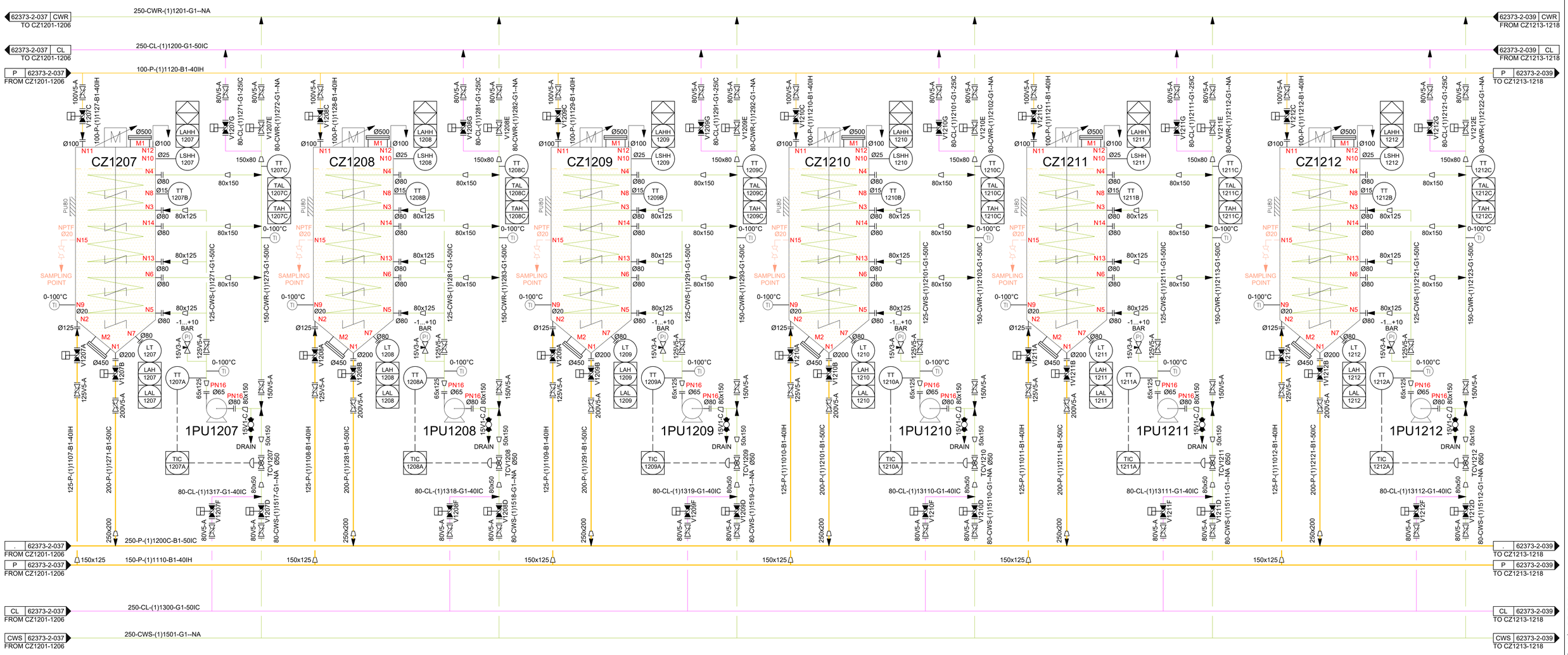
Project Name
1,500MTD DRY FRACTIONATION PLANT (IV60)

PIPING & INSTRUMENTATION DIAGRAM FOR CRYSTALLIZATION (PART 1)

Scale :	N.T.S.
Date :	010318
Drawn By :	DZHAFRI
Checked :	
Approved :	
Sheet No. :	Of
Drawing No.	62373-2-037
Rev.	B

\PJ17\MNA (SERANG)\01-FLOWCHART\(IV60)\PID DRAWING\MNA (SERANG) (IV60)-DF1500-1



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	DESCRIPTION	DATE	BY	CHK'D

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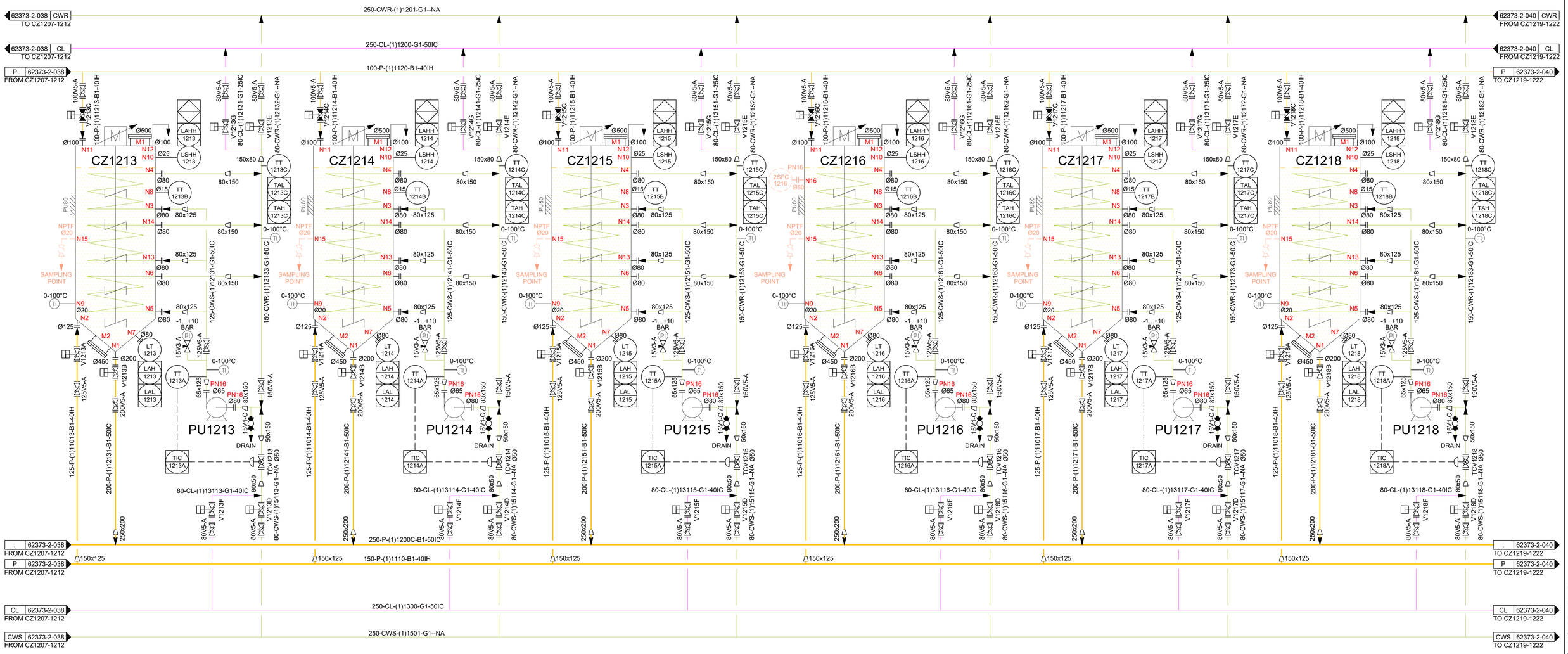
Project Name
1,500MTD DRY FRACTIONATION PLANT (IV60)

PIPING & INSTRUMENTATION DIAGRAM FOR CRYSTALLIZATION (PART 2)

Scale :	N.T.S.
Date :	020318
Drawn By :	DZHAFRI
Checked :	
Approved :	
Sheet No. :	Of
Drawing No.	62373-2-038
Rev.	

\PJT7\MNA (SERANG)\01-FLOWCHART(IV60)\PID DRAWING\MNA (SERANG) (IV60)-DF1500-2



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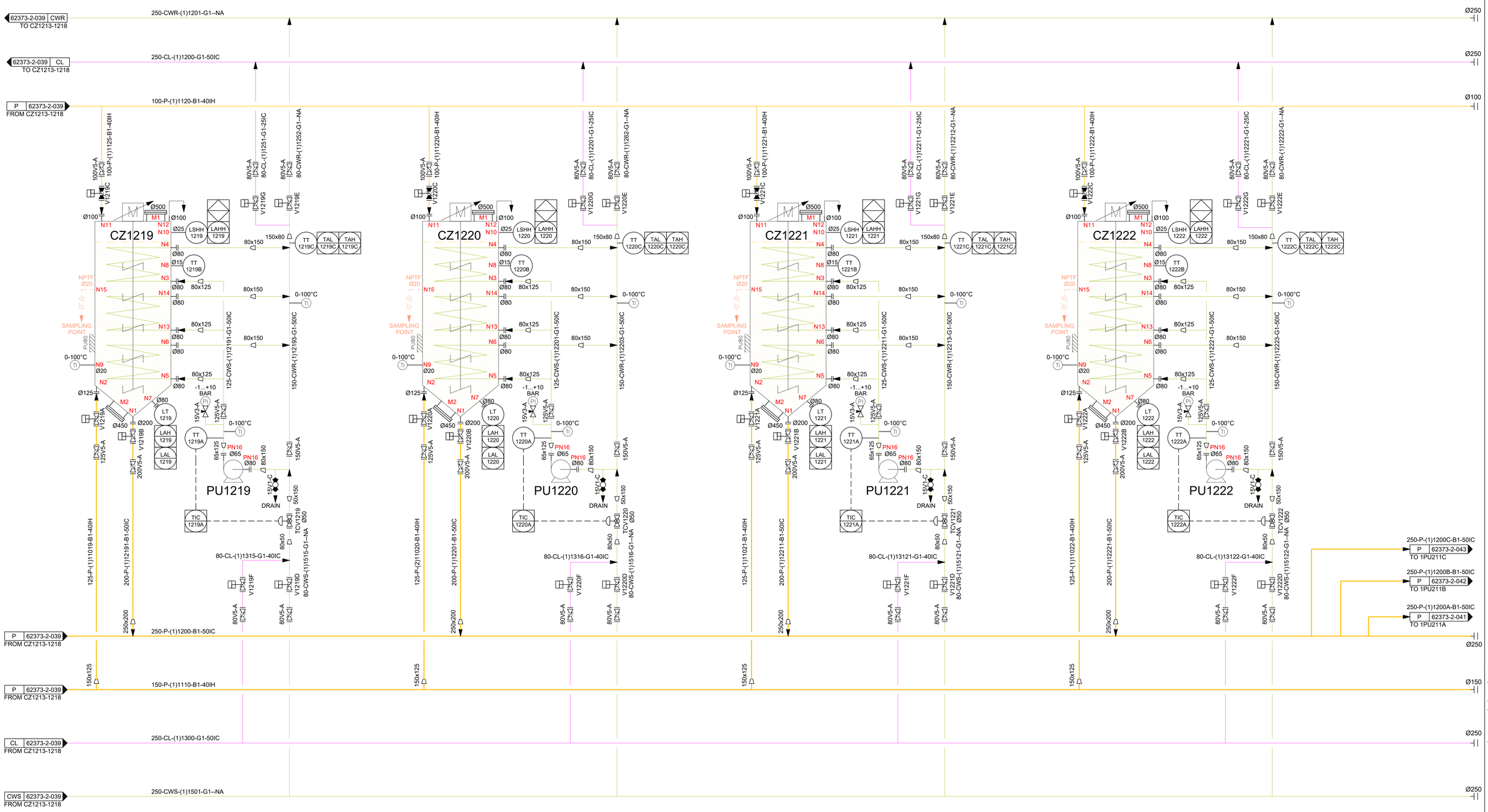
Project Name
1,500MTD DRY FRACTIONATION PLANT (IV60)

PIPING & INSTRUMENTATION DIAGRAM FOR CRYSTALLIZATION (PART 3)

Scale :	N.T.S.
Date :	020318
Drawn By :	DZHAFRI
Checked :	
Approved :	
Sheet No. :	Of
Drawing No.	62373-2-039
Rev.	

\PJ17\MNA (SERANG)\01-FLOWCHART\(IV60)\PID DRAWING\MNA (SERANG) (IV60)-DF1500-3



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DESCRIPTION	DATE	BY	CHK'D

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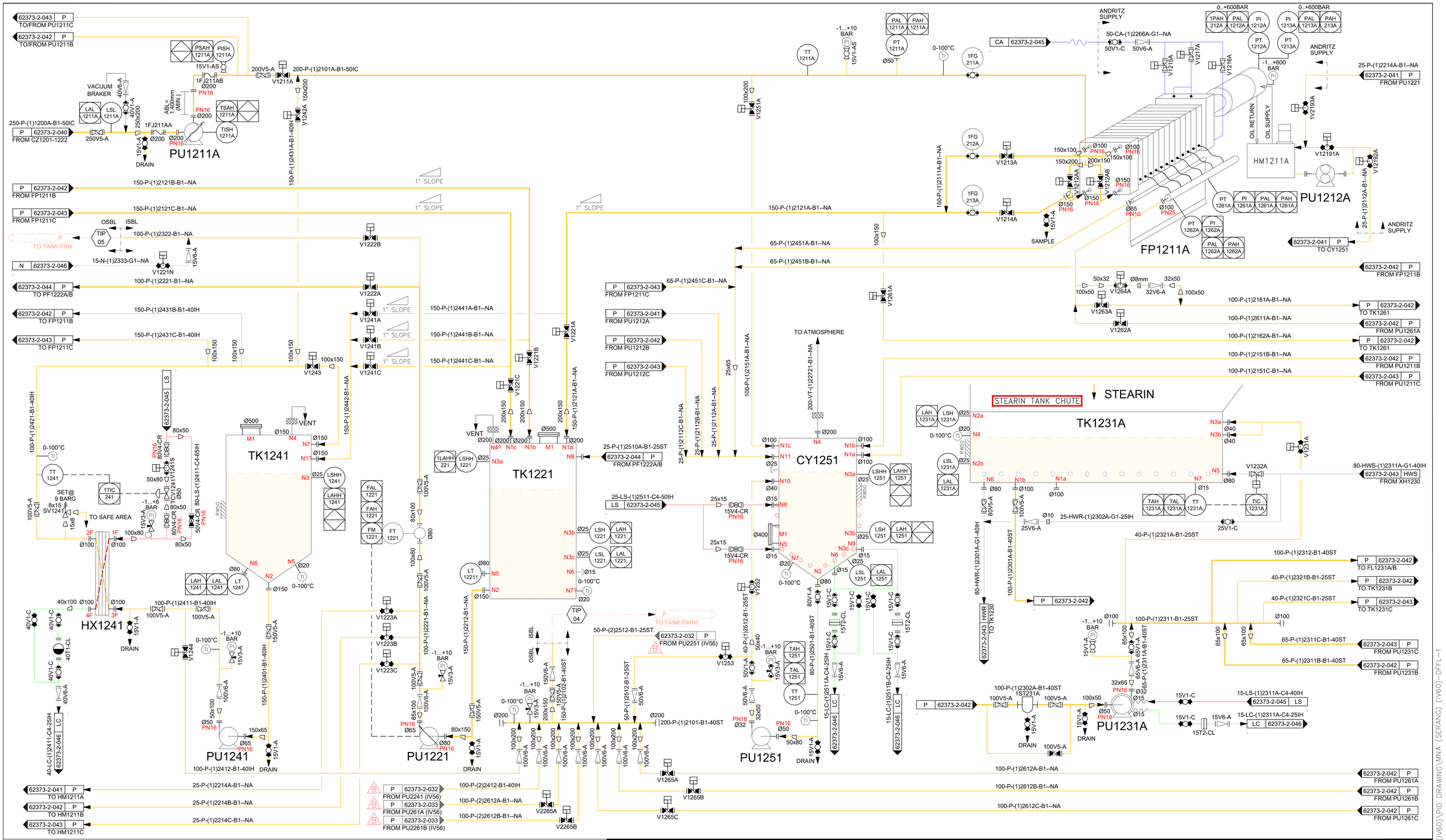
Project Name
1,500MTD DRY FRACTIONATION PLANT (IV60)

PIPING & INSTRUMENTATION DIAGRAM FOR CRYSTALLIZATION SECTION (PART 4)

Scale :	N.T.S.
Date :	010318
Drawn By :	DZHAFRI
Checked :	
Approved :	
Sheet No. :	Of
Drawing No.	62373-2-040
Rev.	

\PJ17\MNA (SERANG)\01-FLOWCHART\(IV60)\PID DRAWING\MNA (SERANG) (IV60)-DF1500-4



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NO.	DESCRIPTION	DATE	BY	CHK'D
2.	REVISED AS SHOWN (B)	270918	DZF	JONATHAN
1.	REVISED AS SHOWN (A)	040918	DZF	JONATHAN

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Date :	080318
Drawn By :	DZHAFRI
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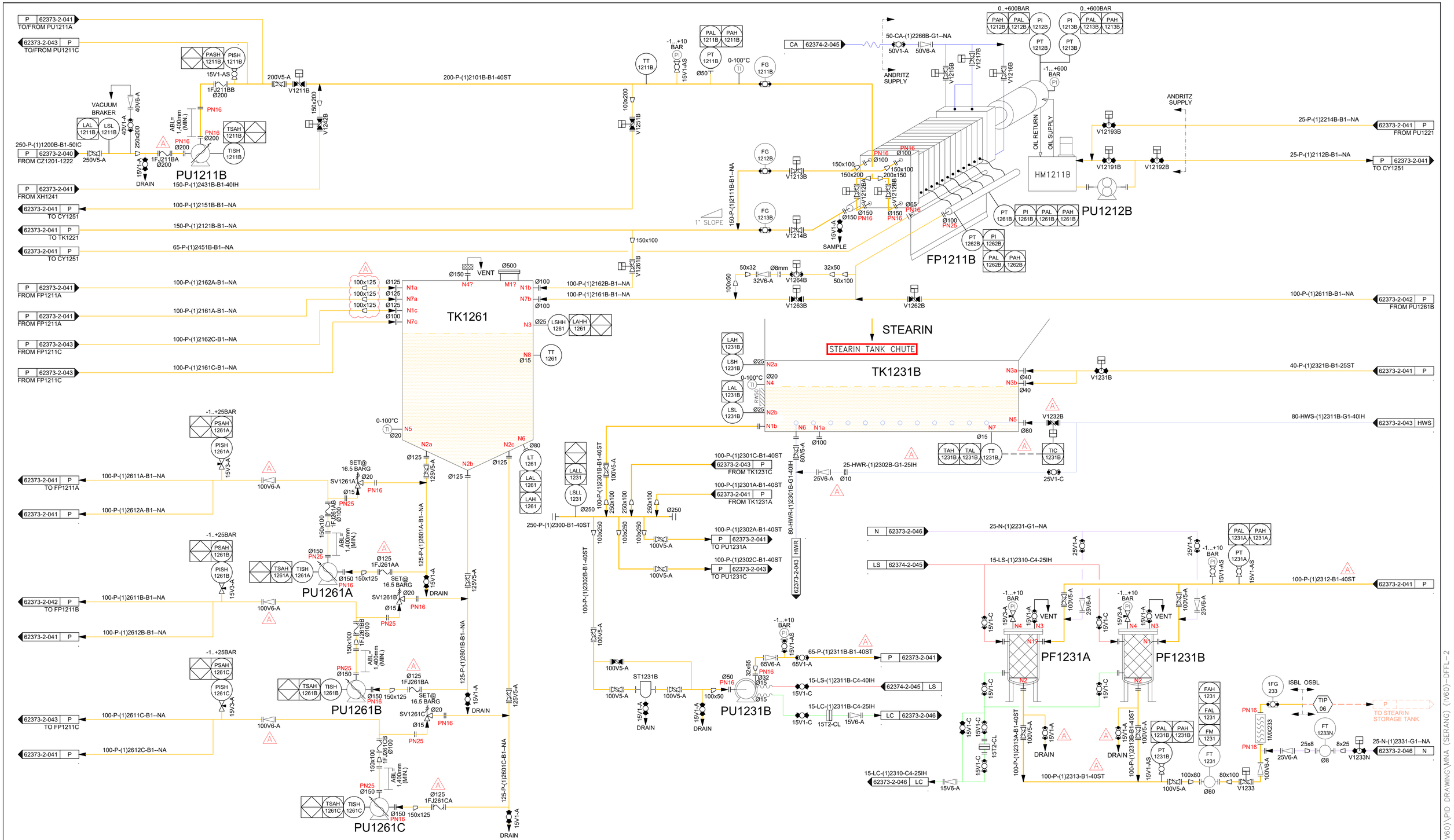
Approved :	
Sheet No. :	Of
Drawing No.	62373-2-041
Rev.	B

Project Name: 1,500MTD DRY FRACTIONATION PLANT (IV60)

PIPING & INSTRUMENTATION DIAGRAM FOR FILTRATION SECTION (PART 1)

\PJ17\MNA (SERANG)\01-FLOWCHART\(IV60)\PID DRAWING\MNA (SERANG) (IV60)-DFFL-1



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NO.	DESCRIPTION	DATE	BY	CHK'D
1.	REVISED AS SHOWN A	040918	DZF	JONATHAN

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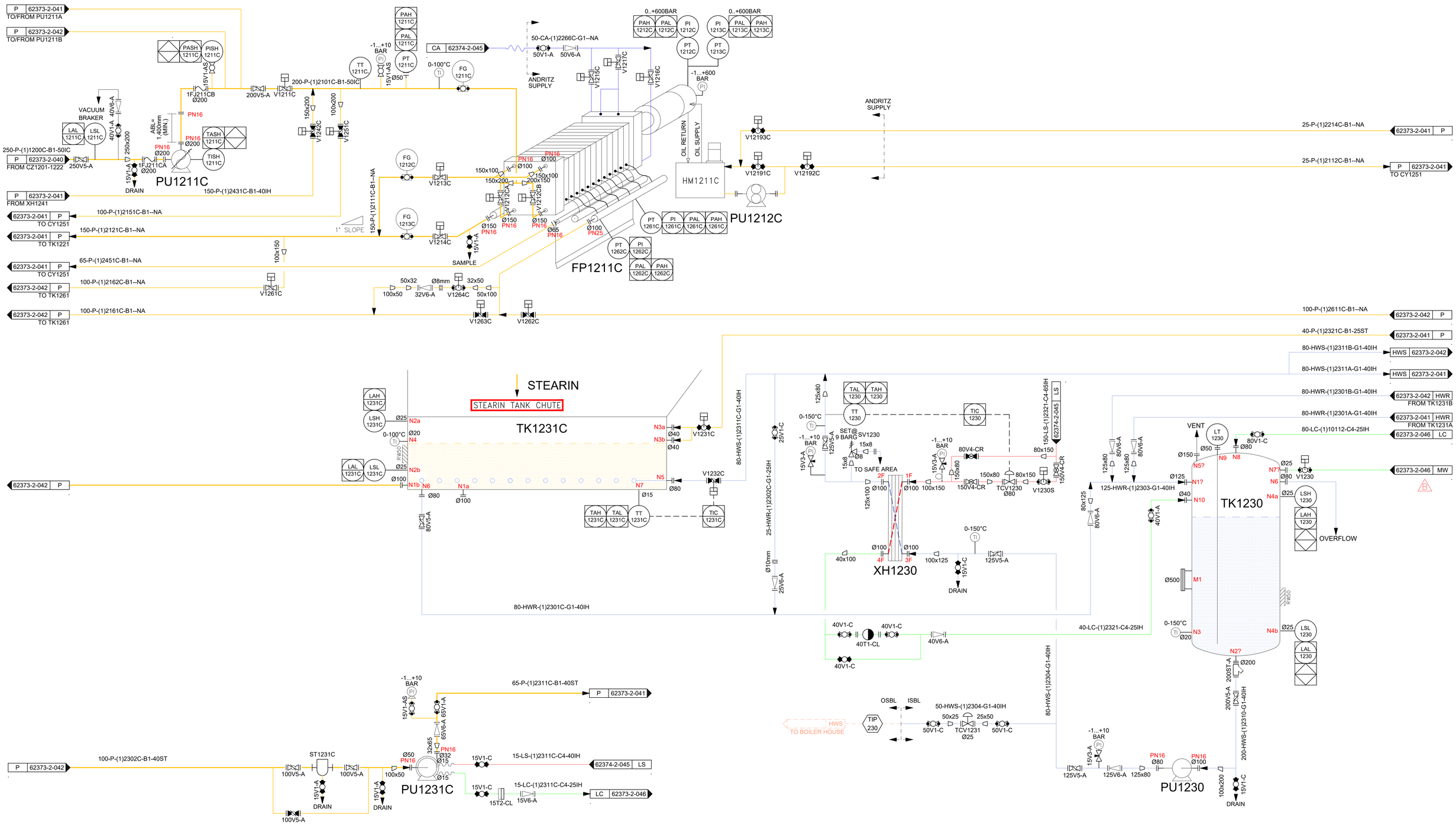
Project Name
1,500MTD DRY FRACTIONATION PLANT (IV60)

PIPING & INSTRUMENTATION DIAGRAM FOR FILTRATION SECTION (PART 2)

Scale :	N.T.S.
Date :	080318
Drawn By :	DZHAFRI
Checked :	
Approved :	
Sheet No. :	Of
Drawing No.	62373-2-042
Rev.	A

\PJ17\MNA (SERANG)\01-FLOWCHART\(IV60)\PID DRAWING\MNA (SERANG) (IV60)-DFFL-2



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NO.	DESCRIPTION	DATE	BY	CHK'D
2.	REVISED AS SHOWN (B)	041018	DZF	JONATHAN
1.	REVISED AS SHOWN (A)	040918	DZF	JONATHAN

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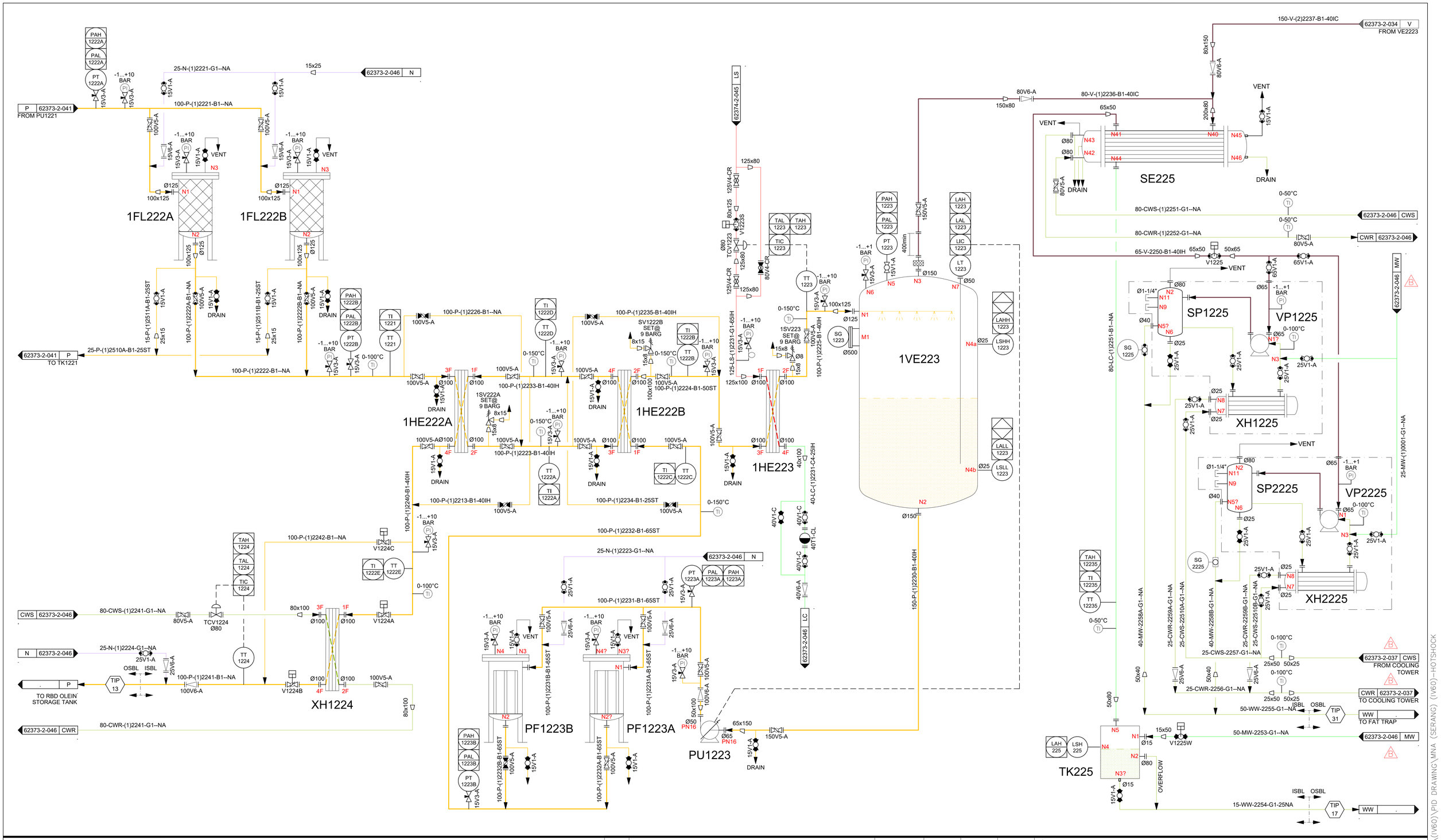
Project Name: 1,500MTD DRY FRACTIONATION PLANT (IV60)

PIPING & INSTRUMENTATION DIAGRAM FOR FILTRATION SECTION (PART 3)

Scale :	N.T.S.
Date :	080318
Drawn By :	DZHAFRI
Checked :	
Approved :	
Sheet No. :	Of
Drawing No.	62373-2-043
Rev.	B

\PJ17\MNA (SERANG)\01-FLOWCHART\(IV60)\PID DRAWING\MNA (SERANG) (IV60)-DFFL-3



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NO.	DESCRIPTION	DATE	BY	CHK'D
2.	REVISED AS SHOWN (B)	041018	DZF	JONATHAN
1.	REVISED AS SHOWN (A)	040918	DZF	JONATHAN

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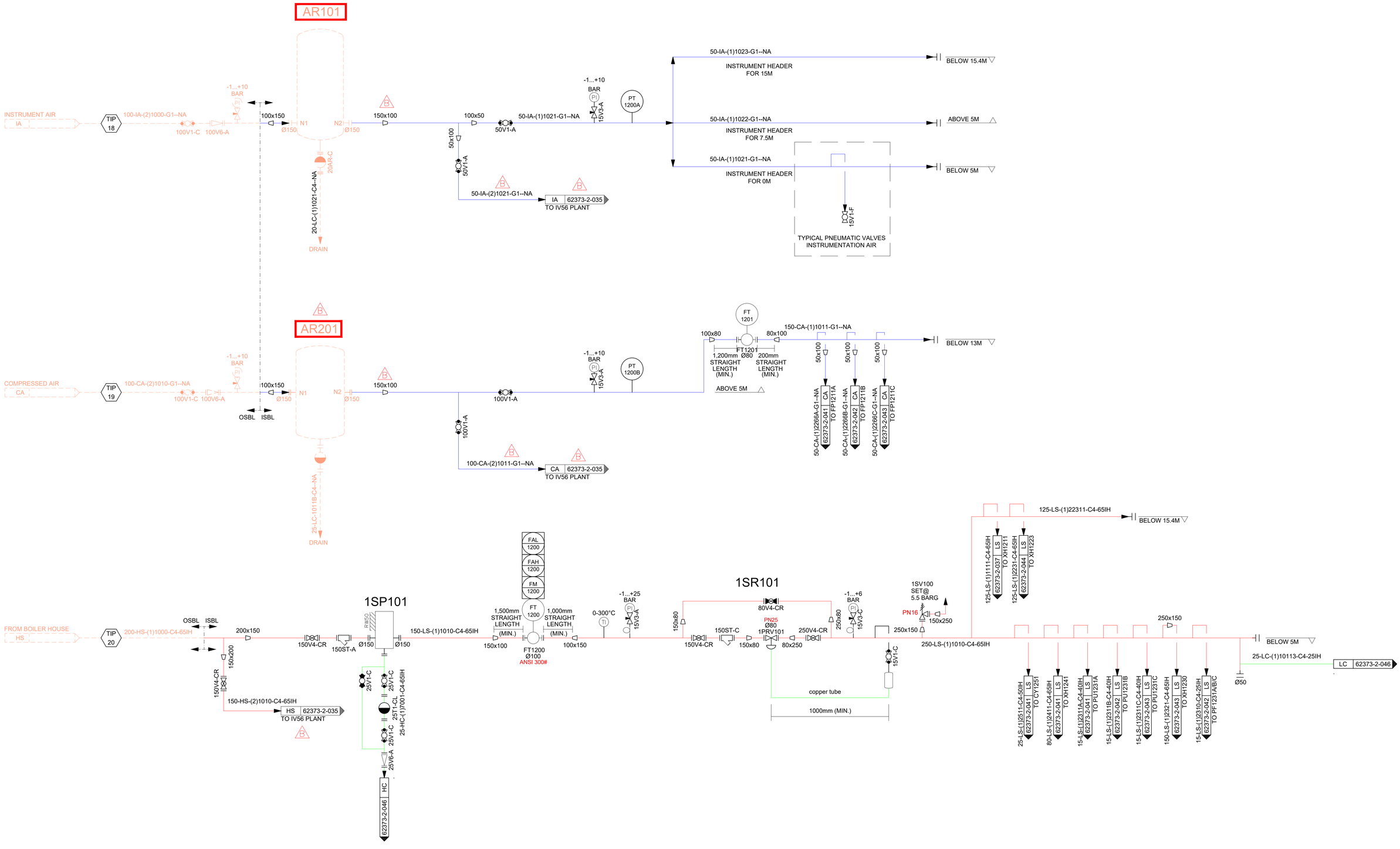
Project Name: 1,500MTD DRY FRACTIONATION PLANT (IV60)

PIPING & INSTRUMENTATION DIAGRAM FOR HOT SHOCK SYSTEM

Scale :	N.T.S.
Date :	050318
Drawn By :	DZHAFRI
Checked :	
Approved :	
Sheet No. :	Of
Drawing No.	62373-2-044
Rev.	A

\P.J17\MNA (SERANG)\01-FLOWCHART\(IV60)\PID DRAWING\MNA (SERANG) (IV60)-HOTSHOCK



NOTE

1. - - - - : DENOTES ITEM NOT SUPPLIED BY LIPICO TECHNOLOGIES.
2. ALL FLANGES ARE ANSI 150# , UNLESS OTHERWISE STATED.
3. ALL THREADED CONNECTIONS ARE NPT STANDARD UNLESS OTHERWISE STATED.
4. PN10 , PN16 , PN25 , PN40 : DIN STANDARD.

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2.	REVISED AS SHOWN (B)	270918	DZF	
1.	REVISED AS SHOWN (A)	120918	DZF	

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Project Name
1,500MTD DRY FRACTIONATION PLANT (IV60)

PIPING & INSTRUMENTATION DIAGRAM FOR UTILITIES SECTION (PART 1)

Scale : N.T.S.
Date : 020318
Drawn By : DZHAFRI
Checked :
Approved :
Sheet No. : Of
Drawing No. 62373-2-045
Rev. B

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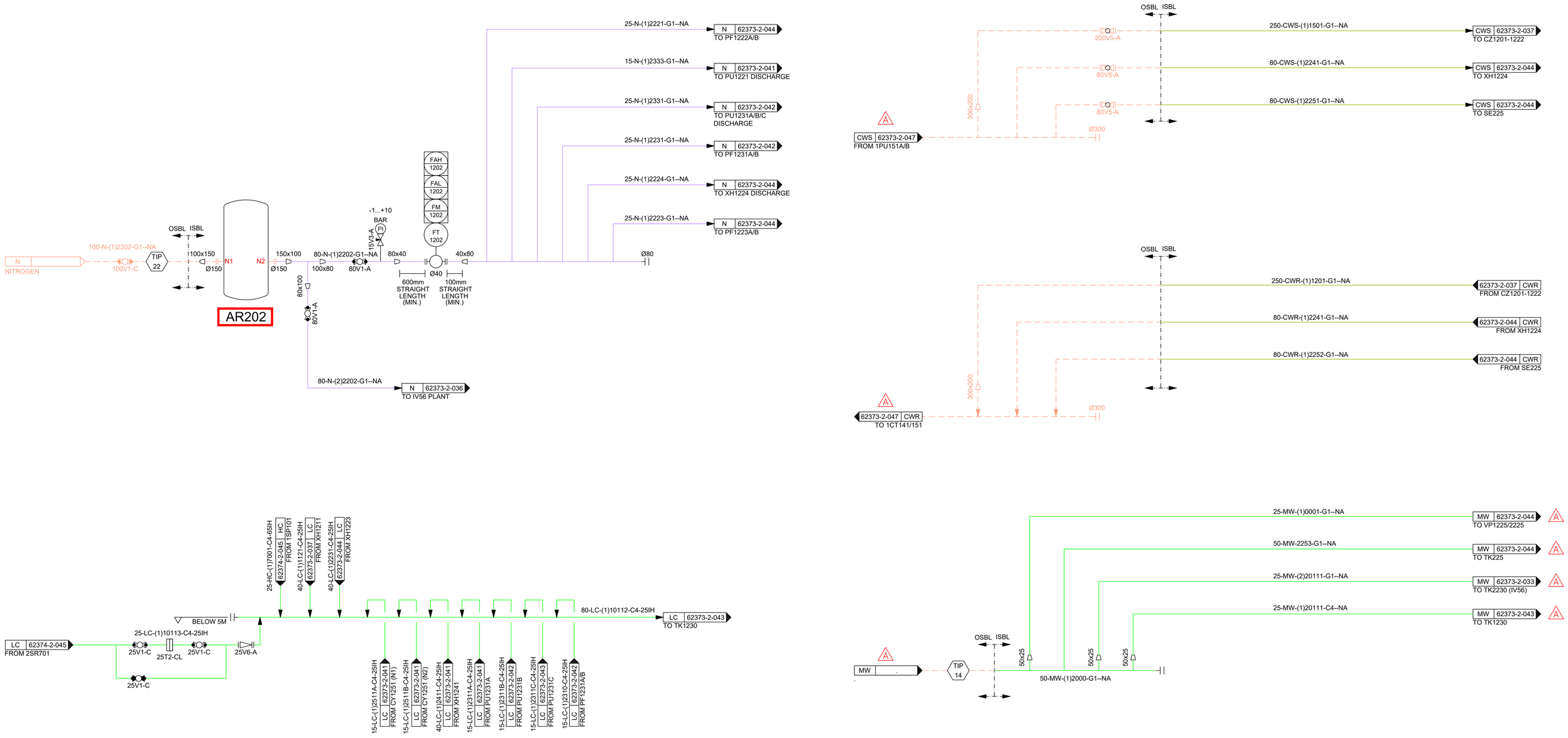

NOTE

1. - - - - : DENOTES ITEM NOT SUPPLIED BY LIPICO TECHNOLOGIES.
2. ALL FLANGES ARE ANSI 150# , UNLESS OTHERWISE STATED.
3. ALL THREADED CONNECTIONS ARE NPT STANDARD UNLESS OTHERWISE STATED.
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Project Name
1,500MTD DRY FRACTIONATION PLANT (IV60)

PIPING & INSTRUMENTATION DIAGRAM FOR UTILITIES SECTION (PART 2)

Scale :	N.T.S.
Date :	050318
Drawn By :	DZHAFRI
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Approved :	
Sheet No. :	Of
Drawing No.	62373-2-046
Rev.	

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