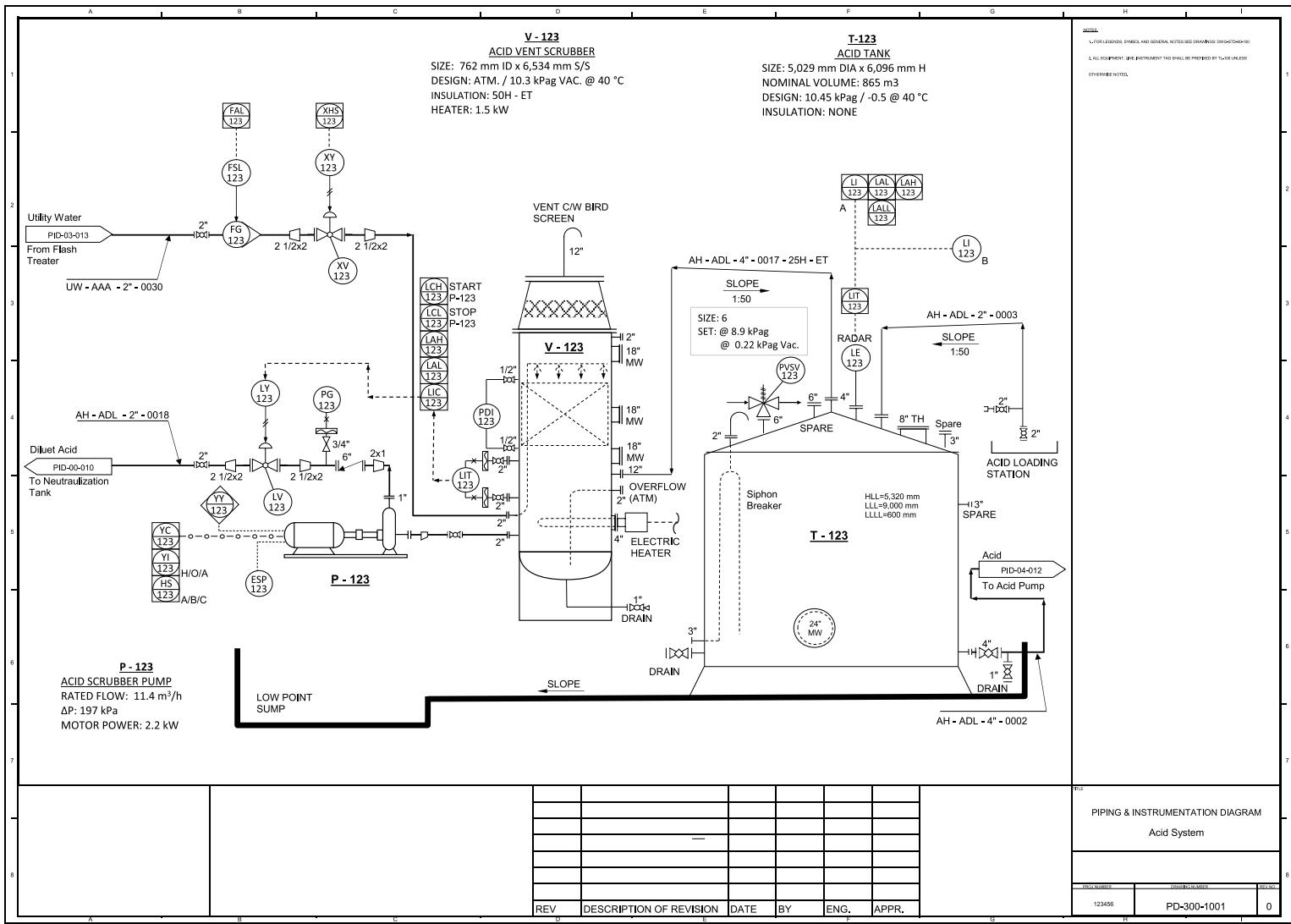


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Examples

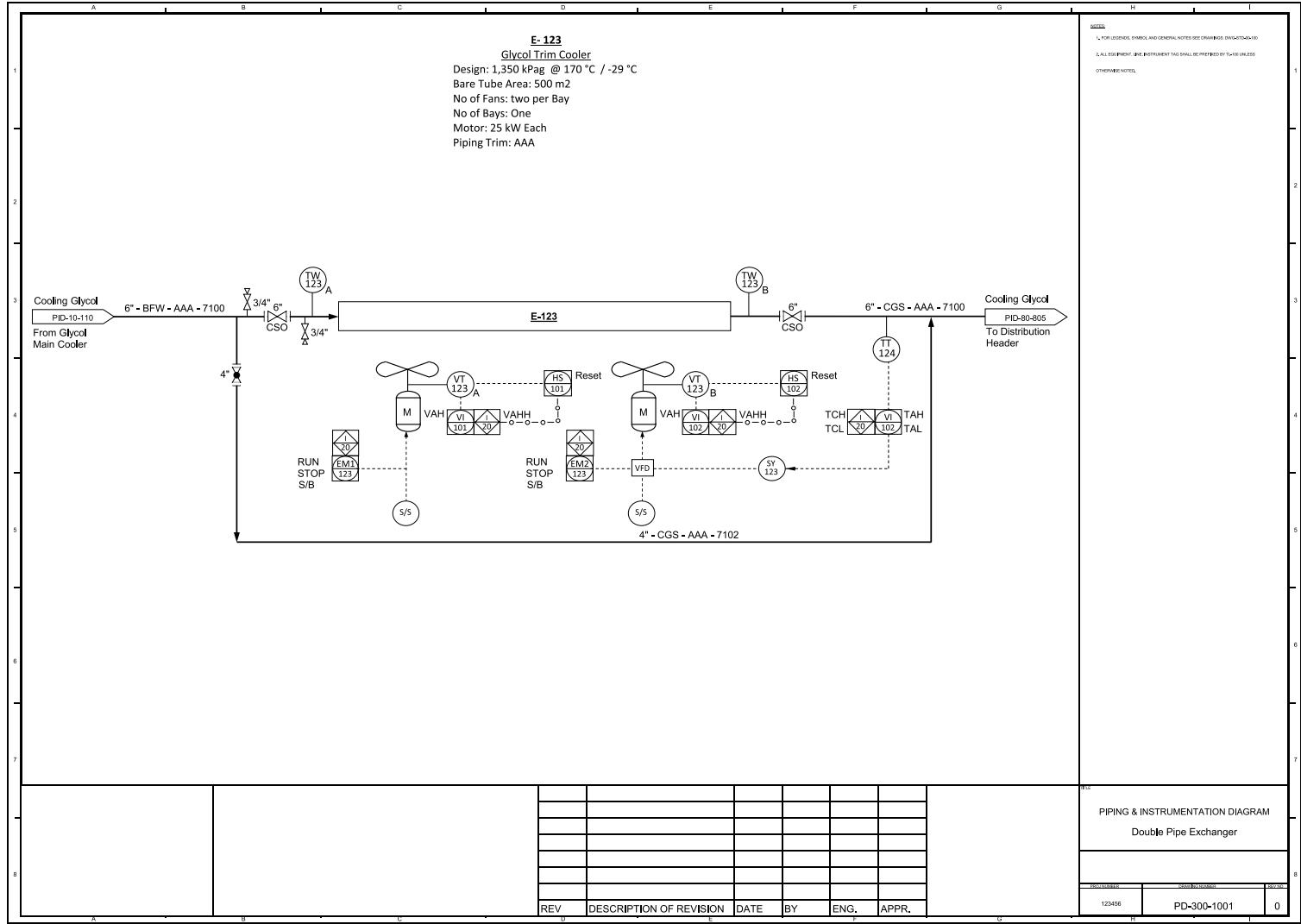
P and ID Development

Acid System



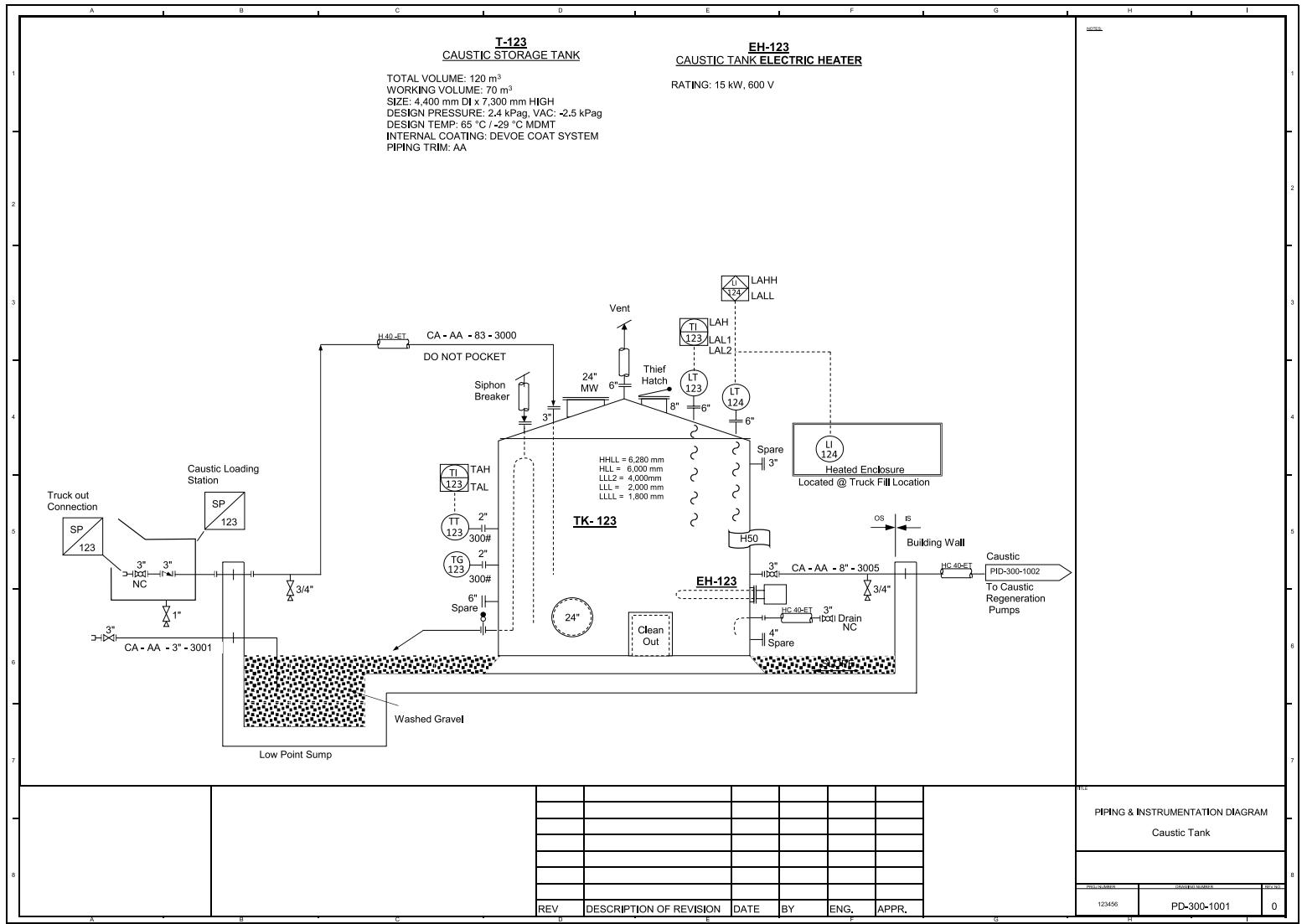
P and ID Development

Air Cooler



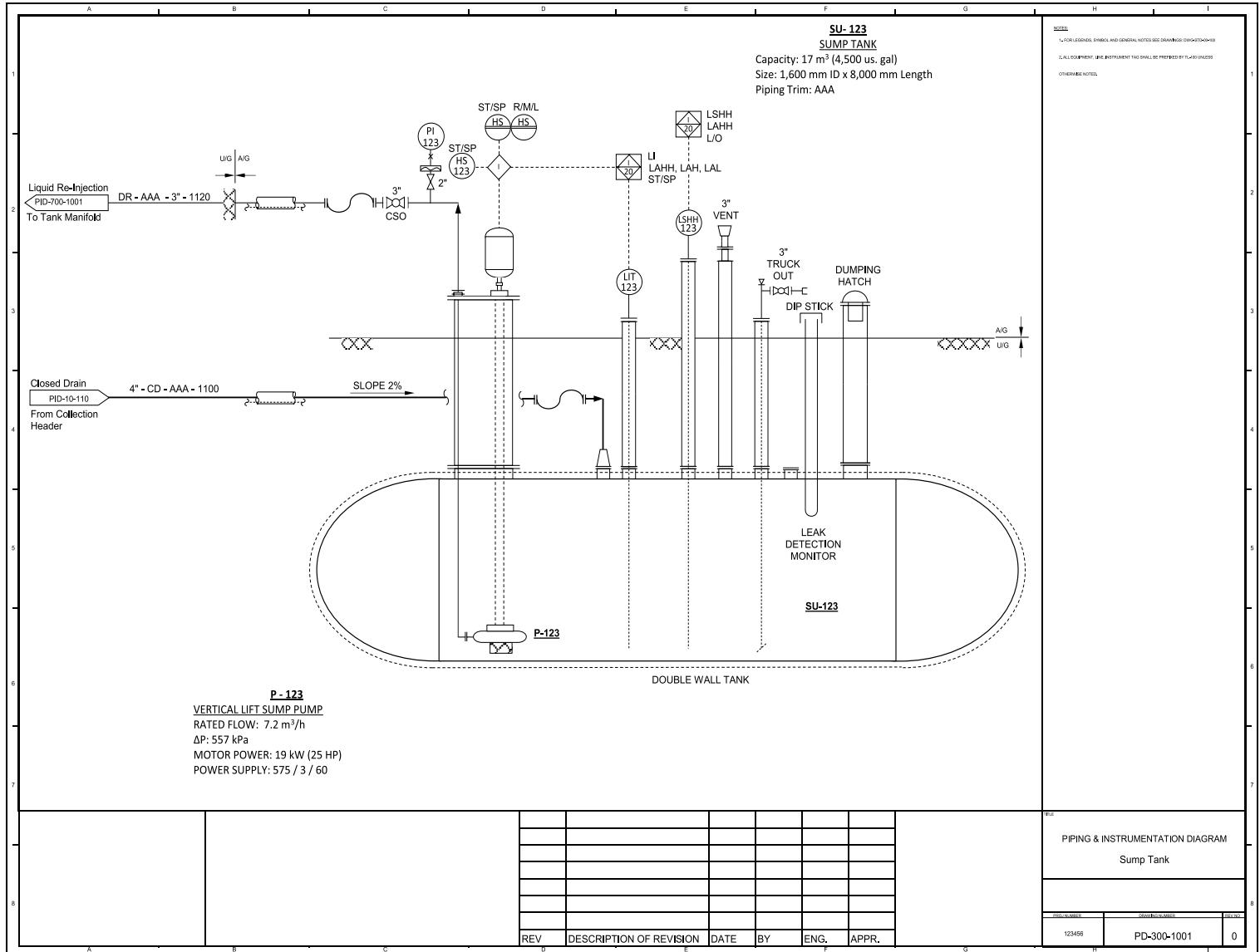
P and ID Development

Caustic Tank



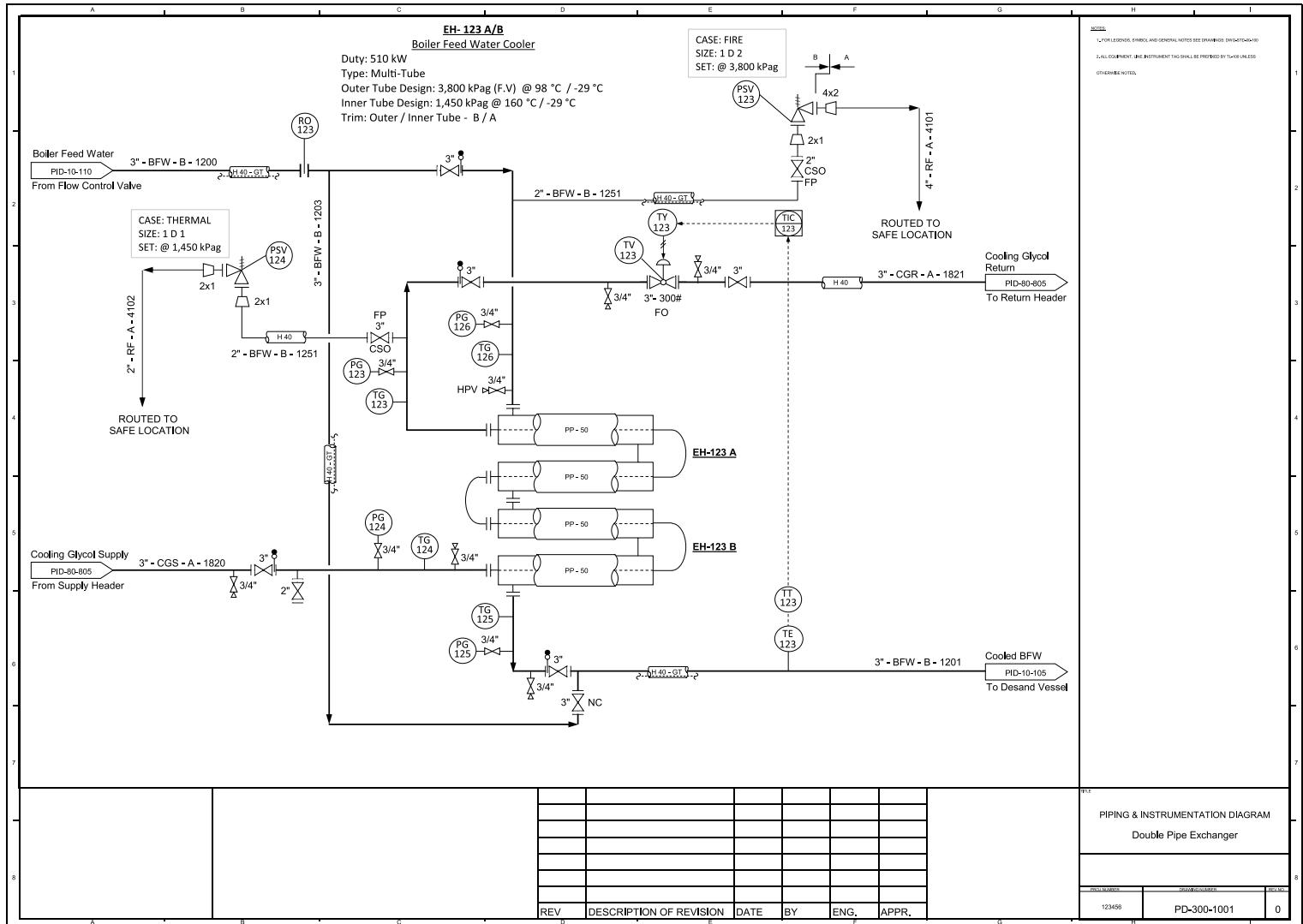
P and ID Development

Closed Drain



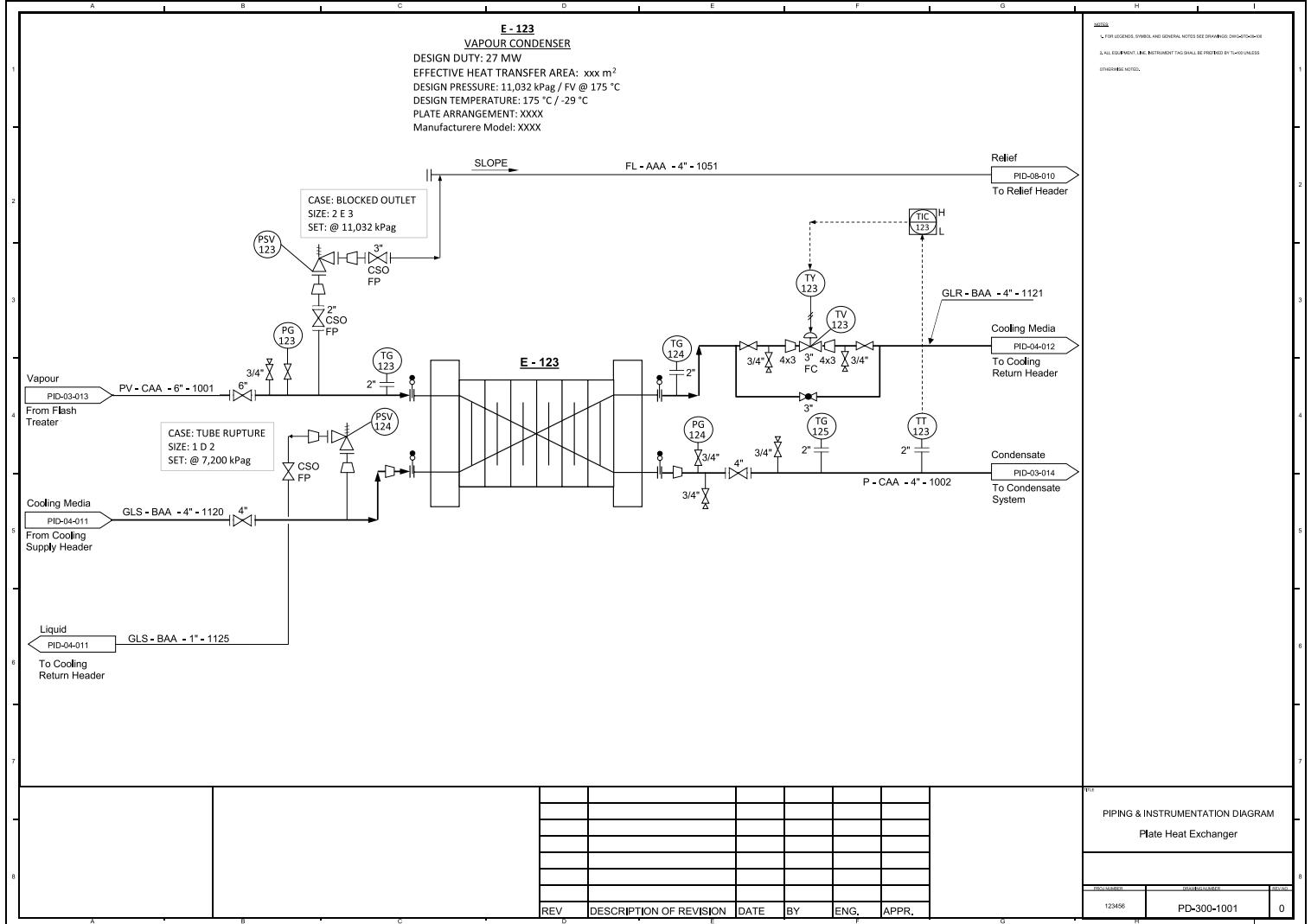
P and ID Development

Double Pipe HX



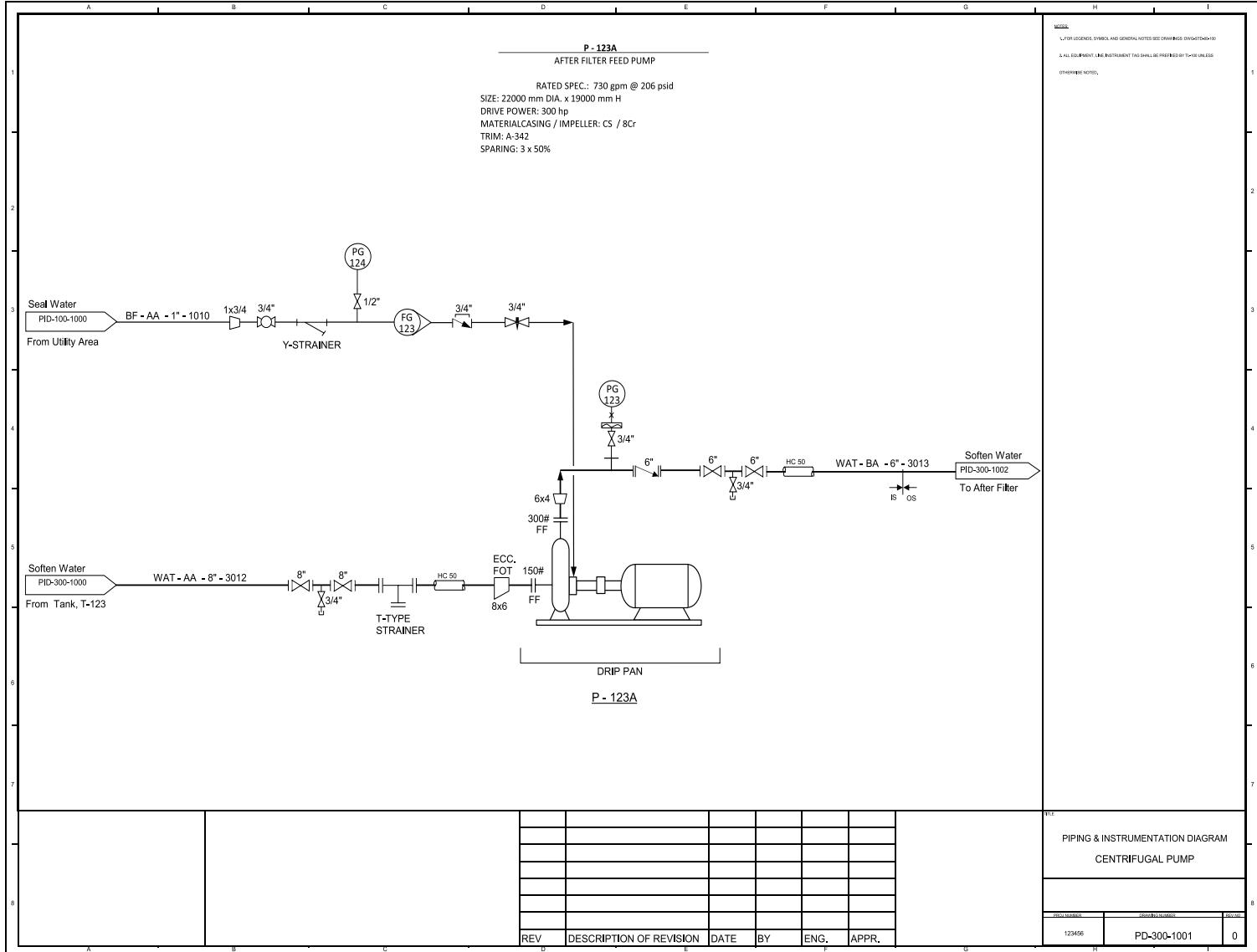
P and ID Development

Plate Heat Exchanger



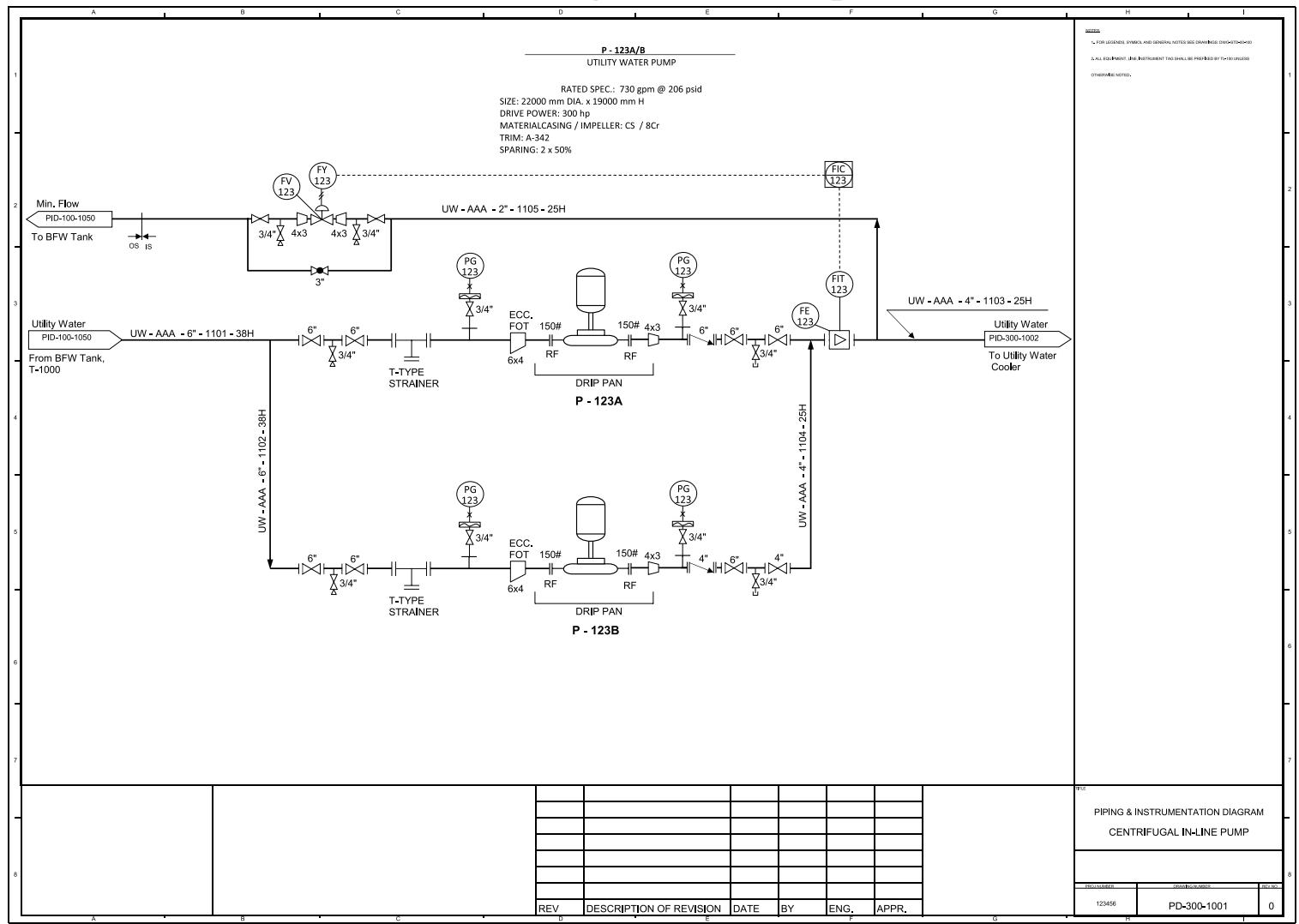
P and ID Development

Centrifugal Pump



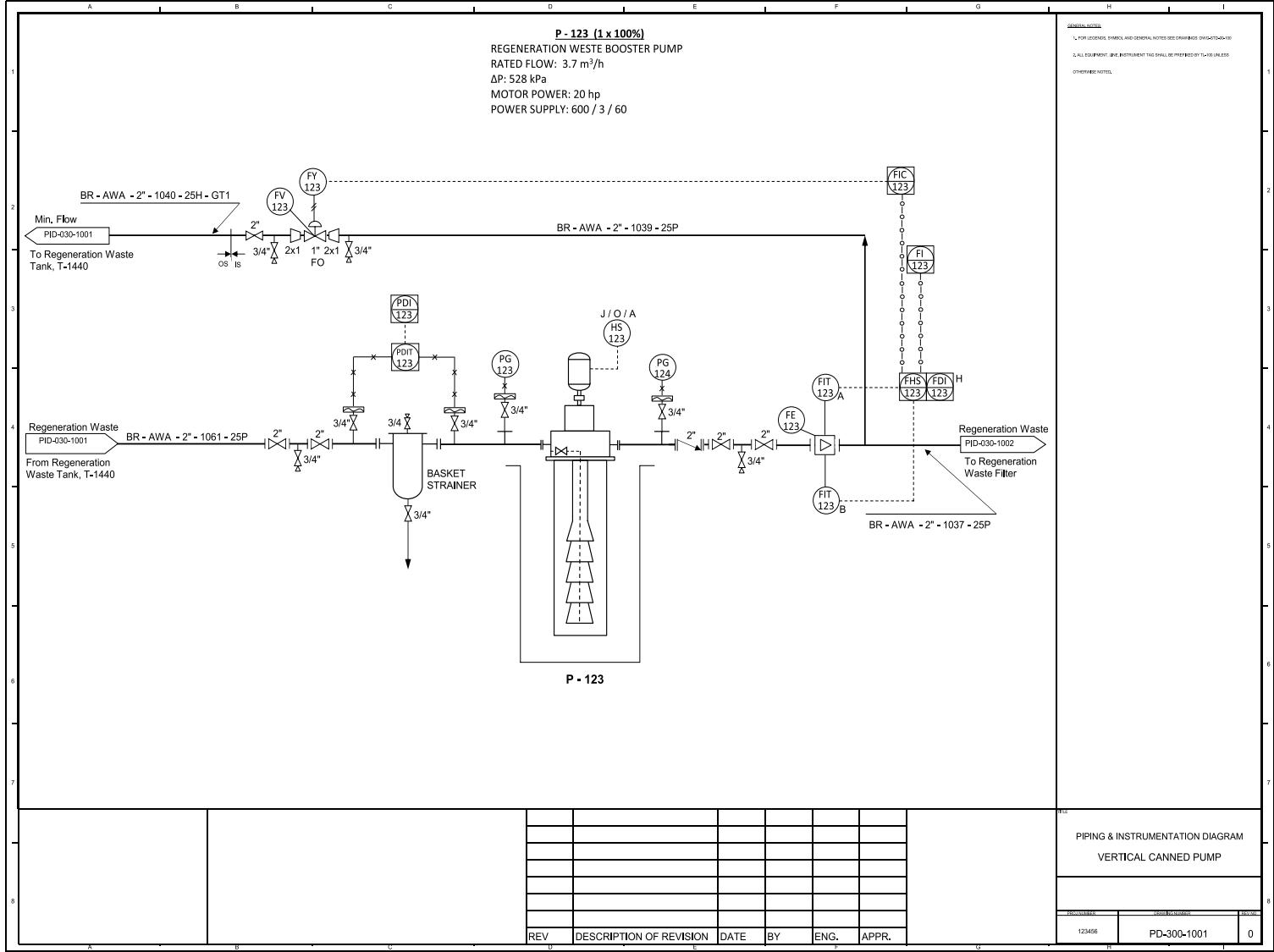
P and ID Development

Centrifugal In-line Pump

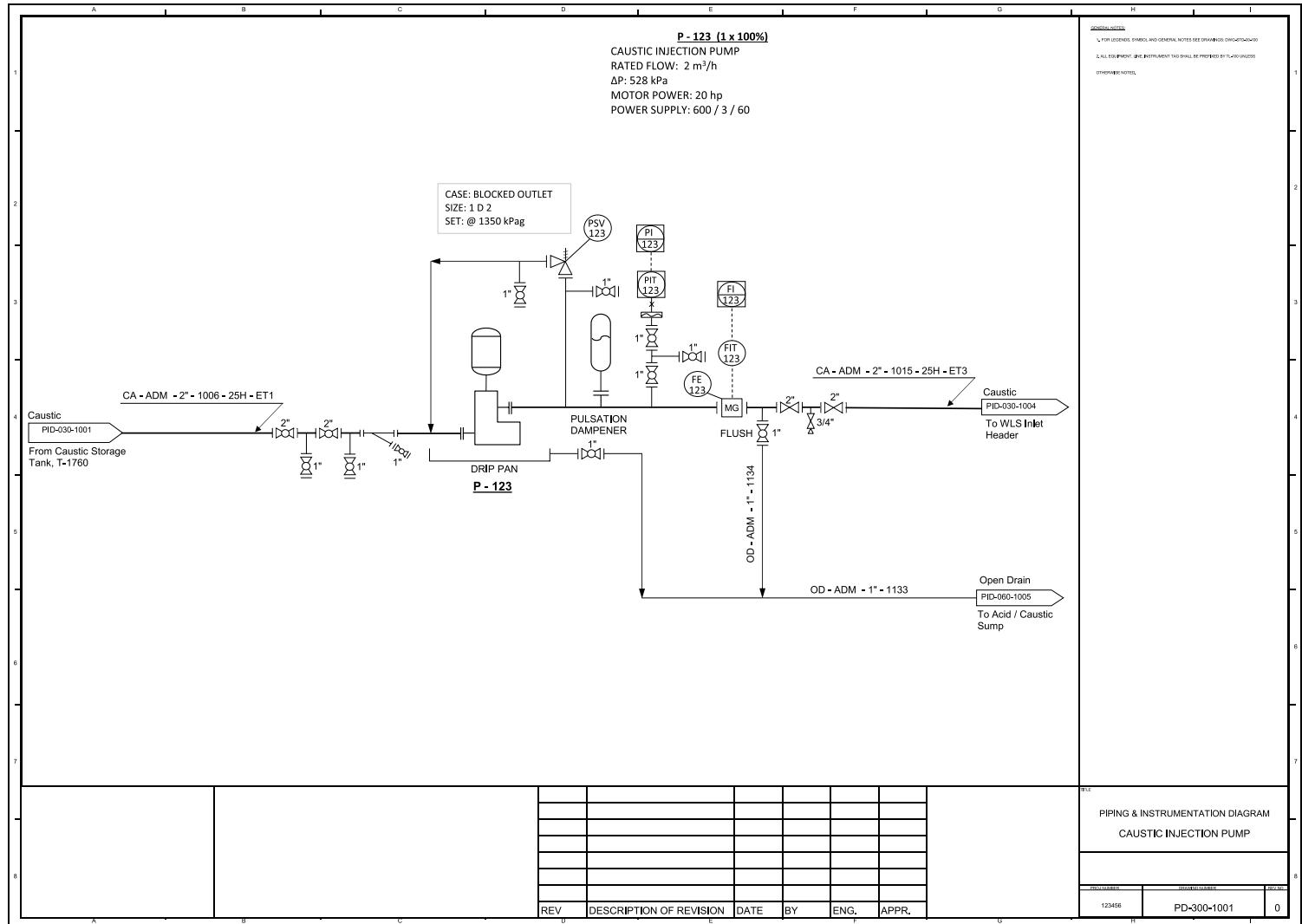


P and ID Development

Vertical Canned Pump

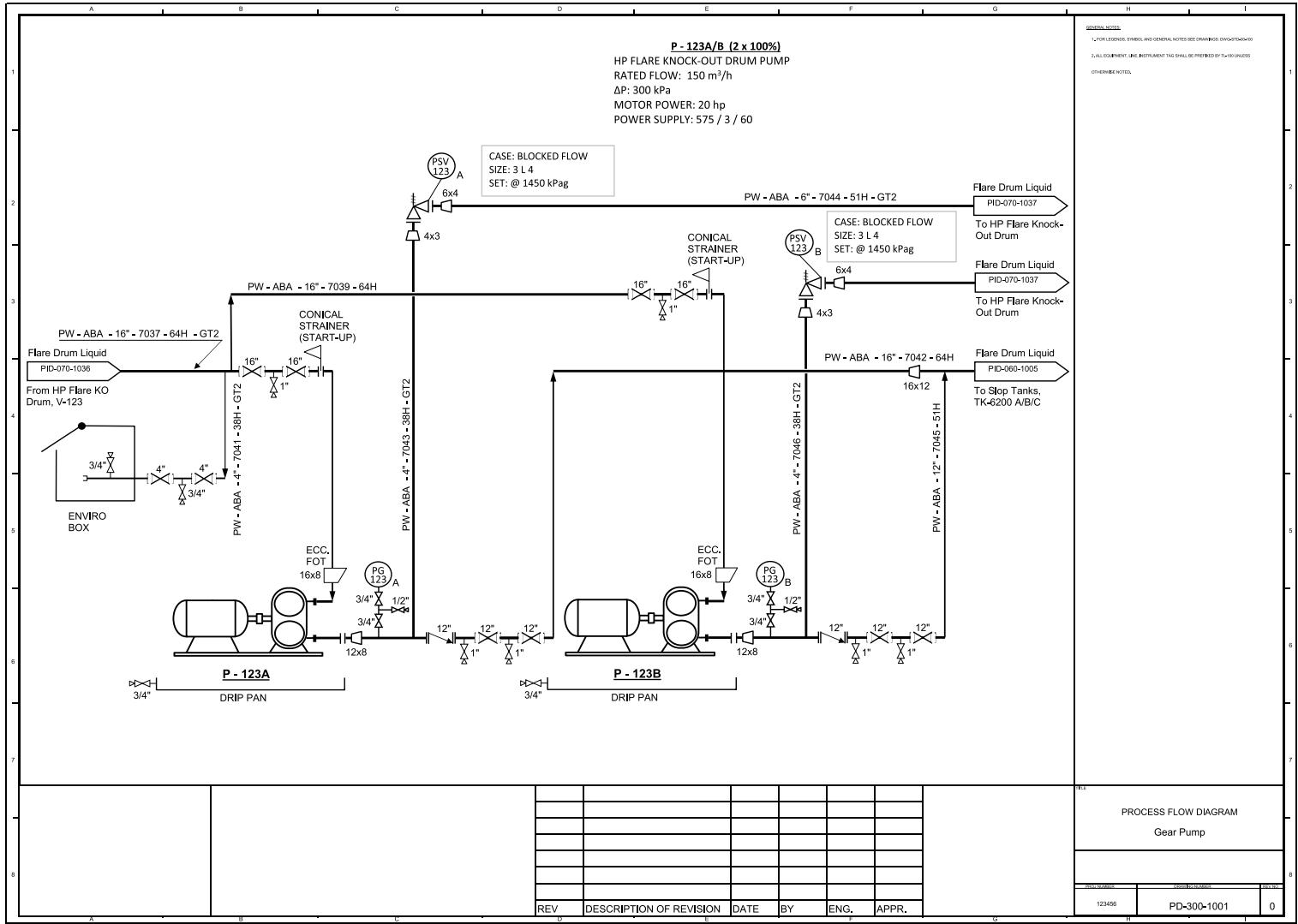


Caustic Injection Pump



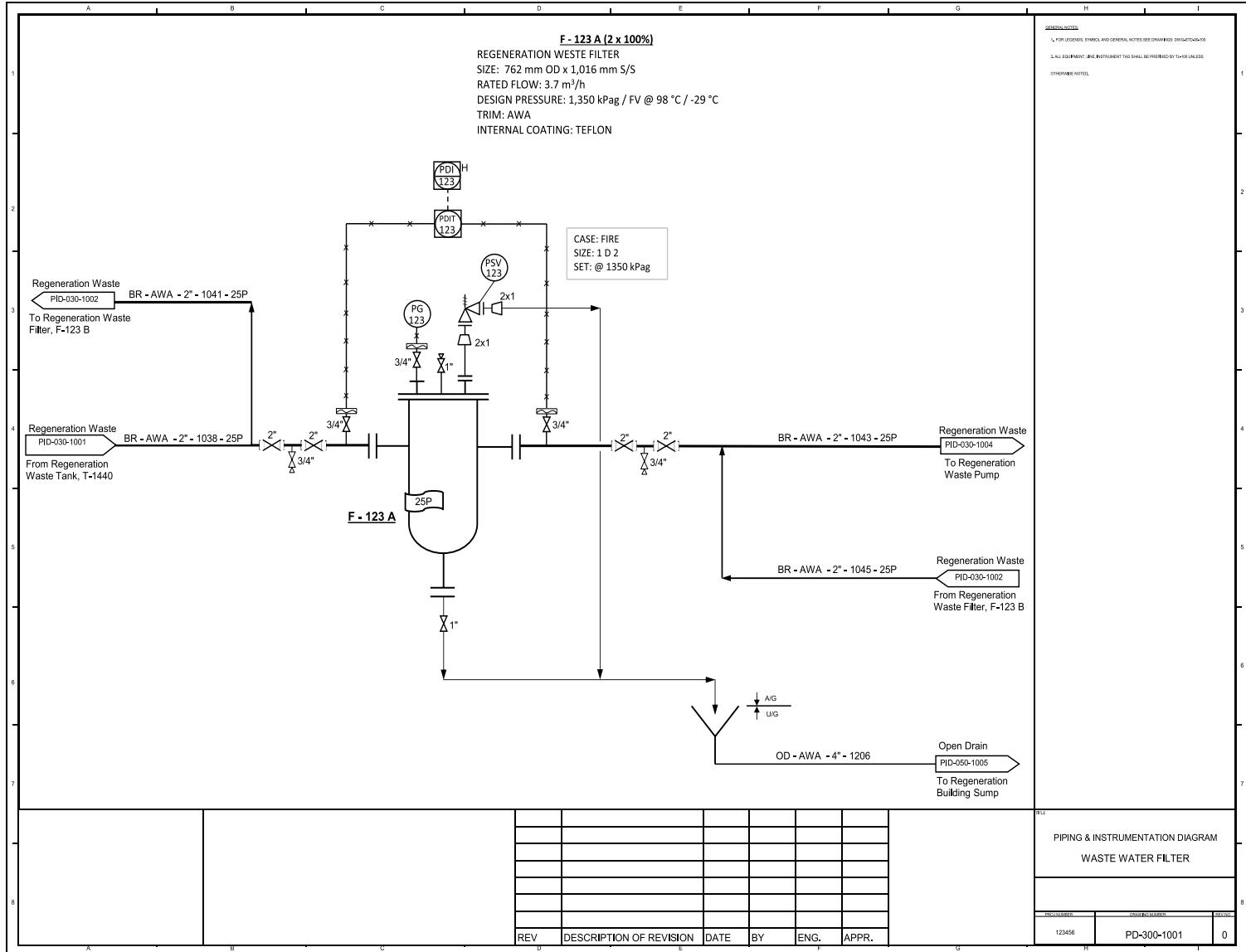
P and ID Development

Gear Pump



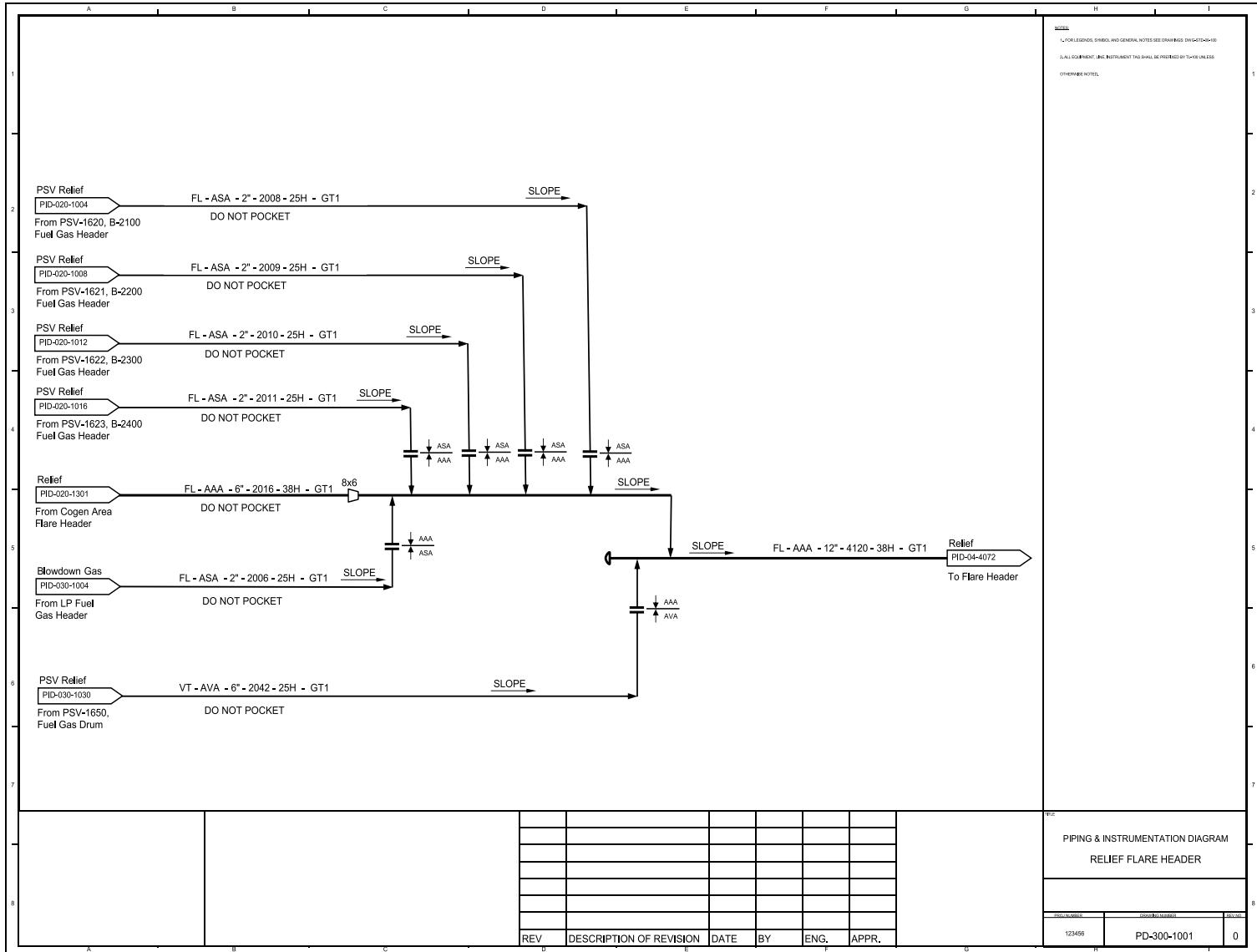
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Waste Water Filter



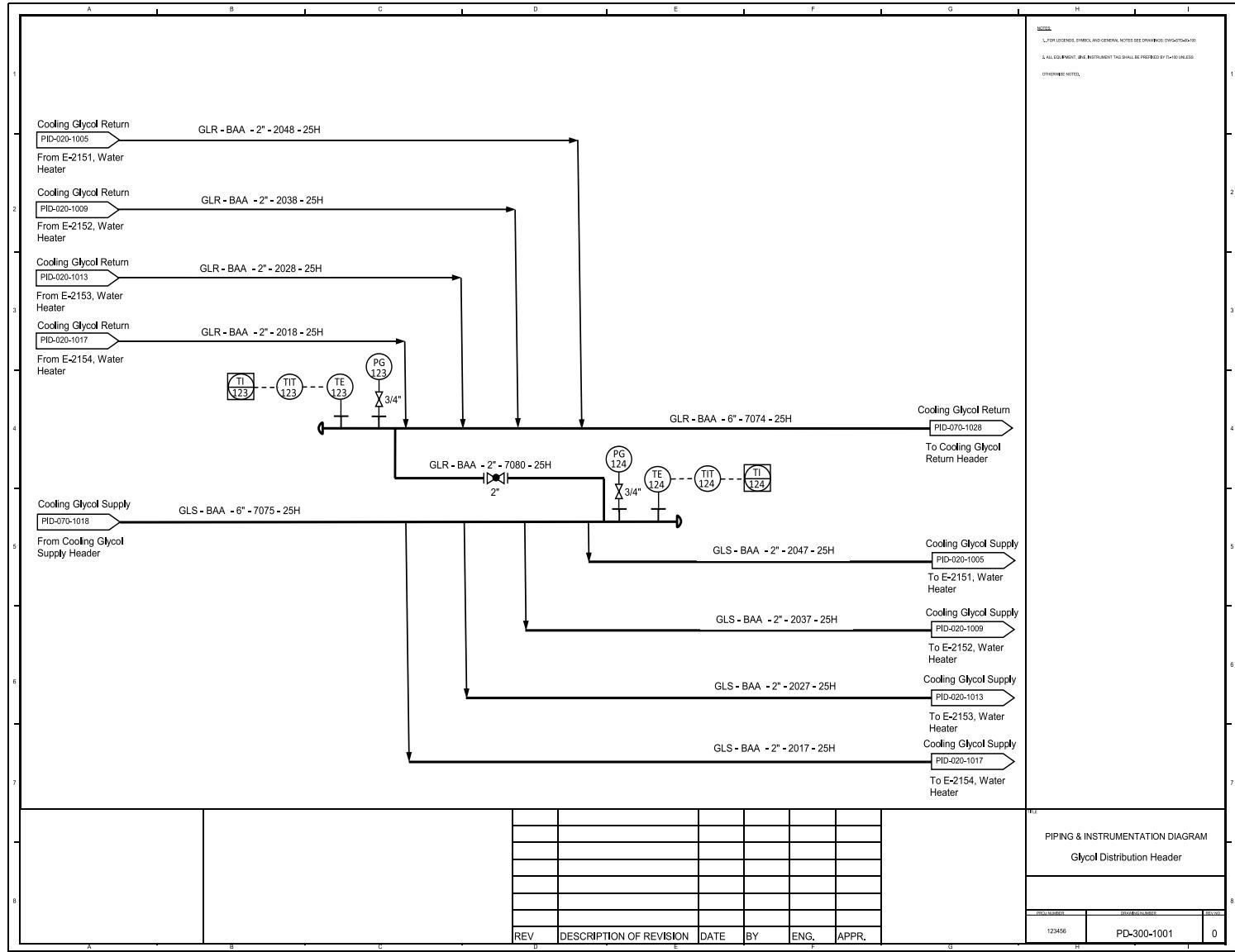
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Relief Flare Header



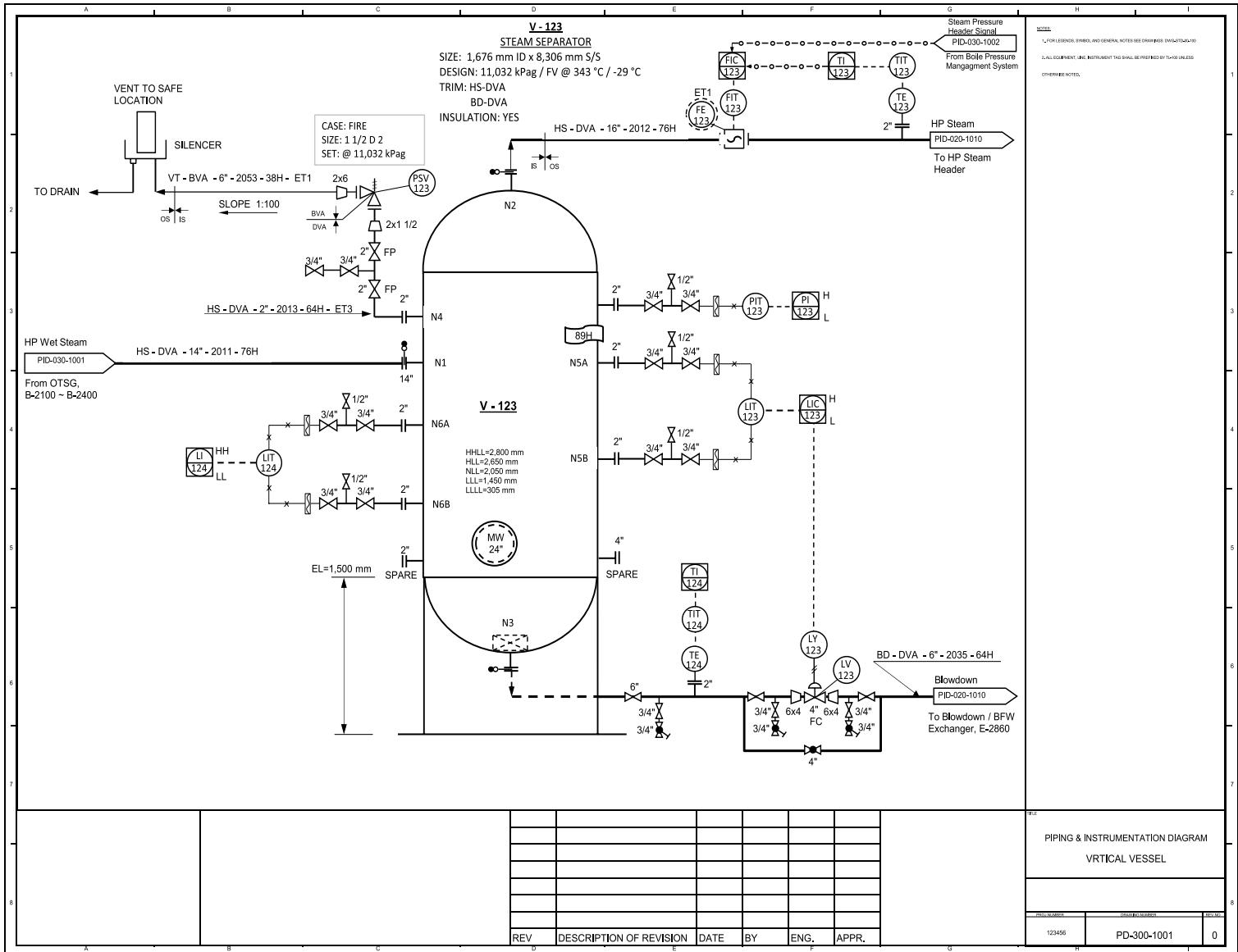
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Glyced Distribution Header



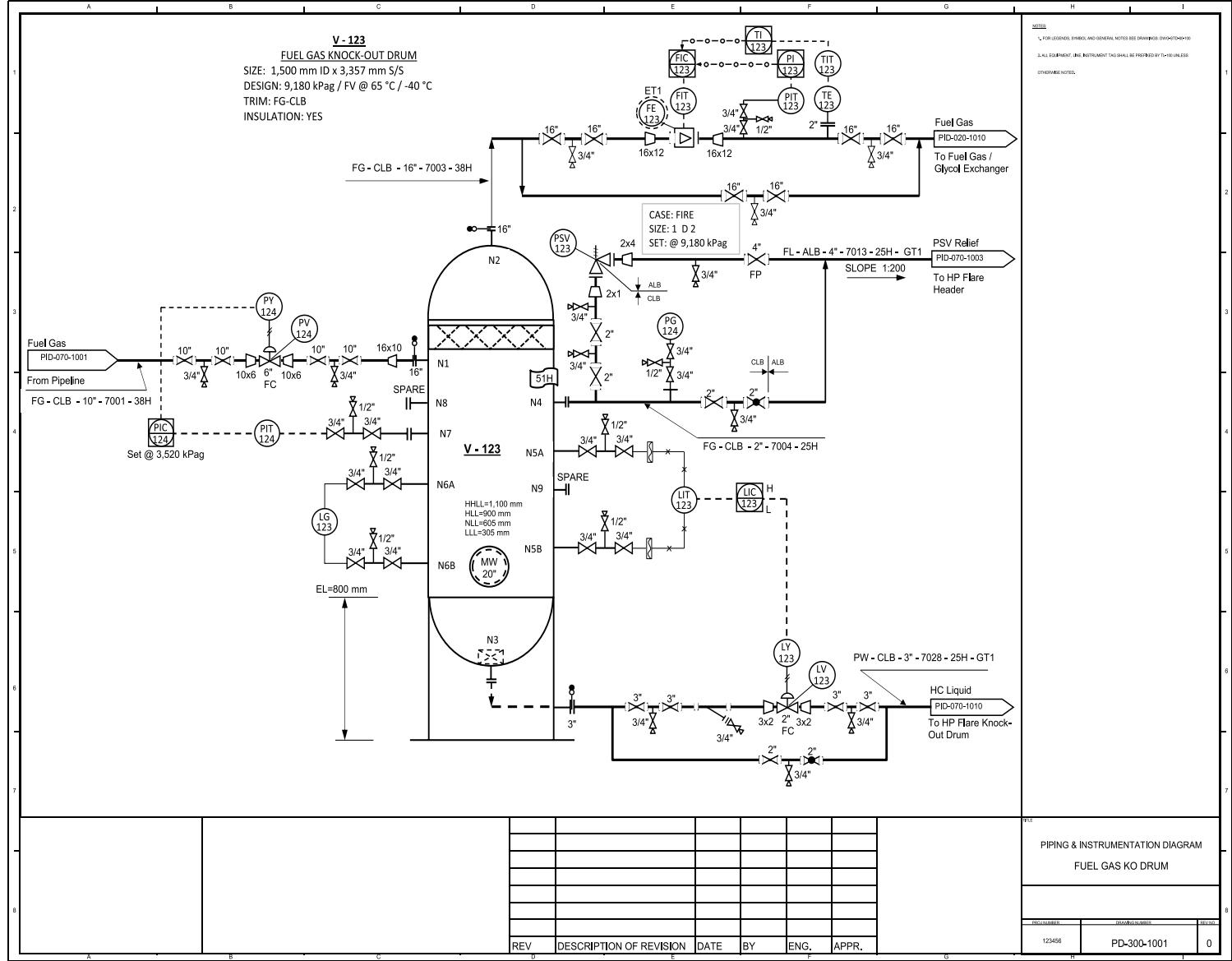
and ID Development

Vertical Vessel



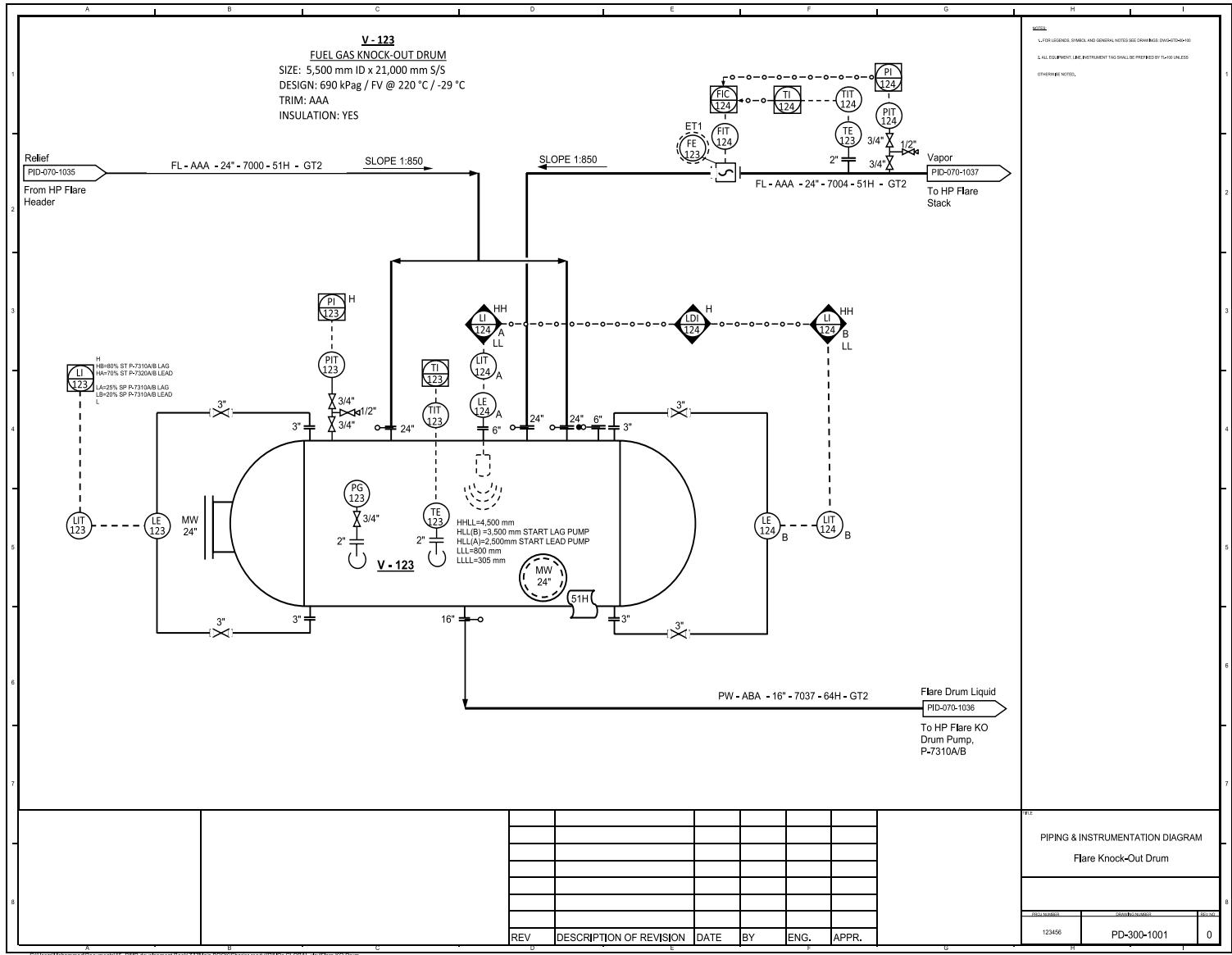
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Fuel Gas Ko Drum



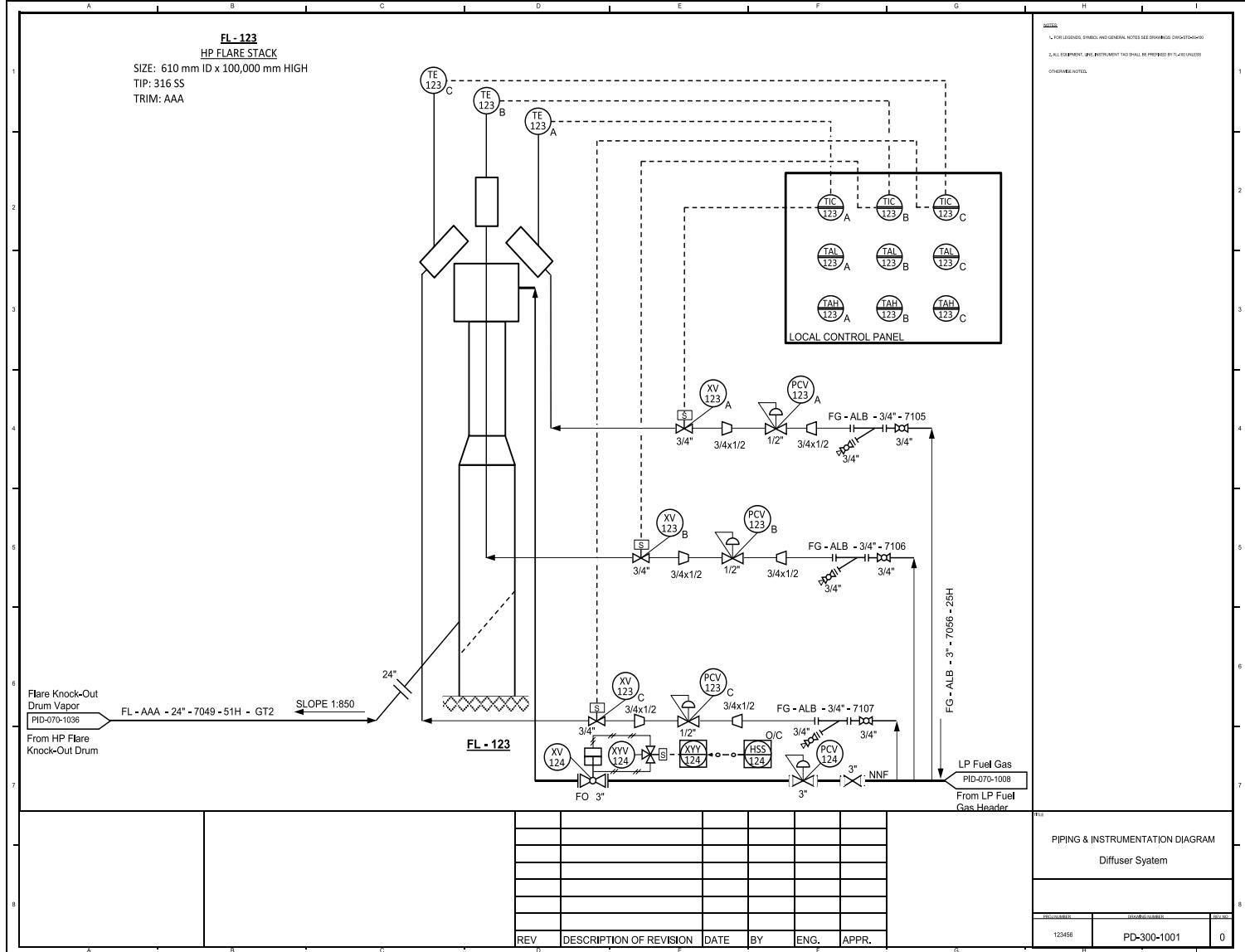
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Flare Knock-out Drum



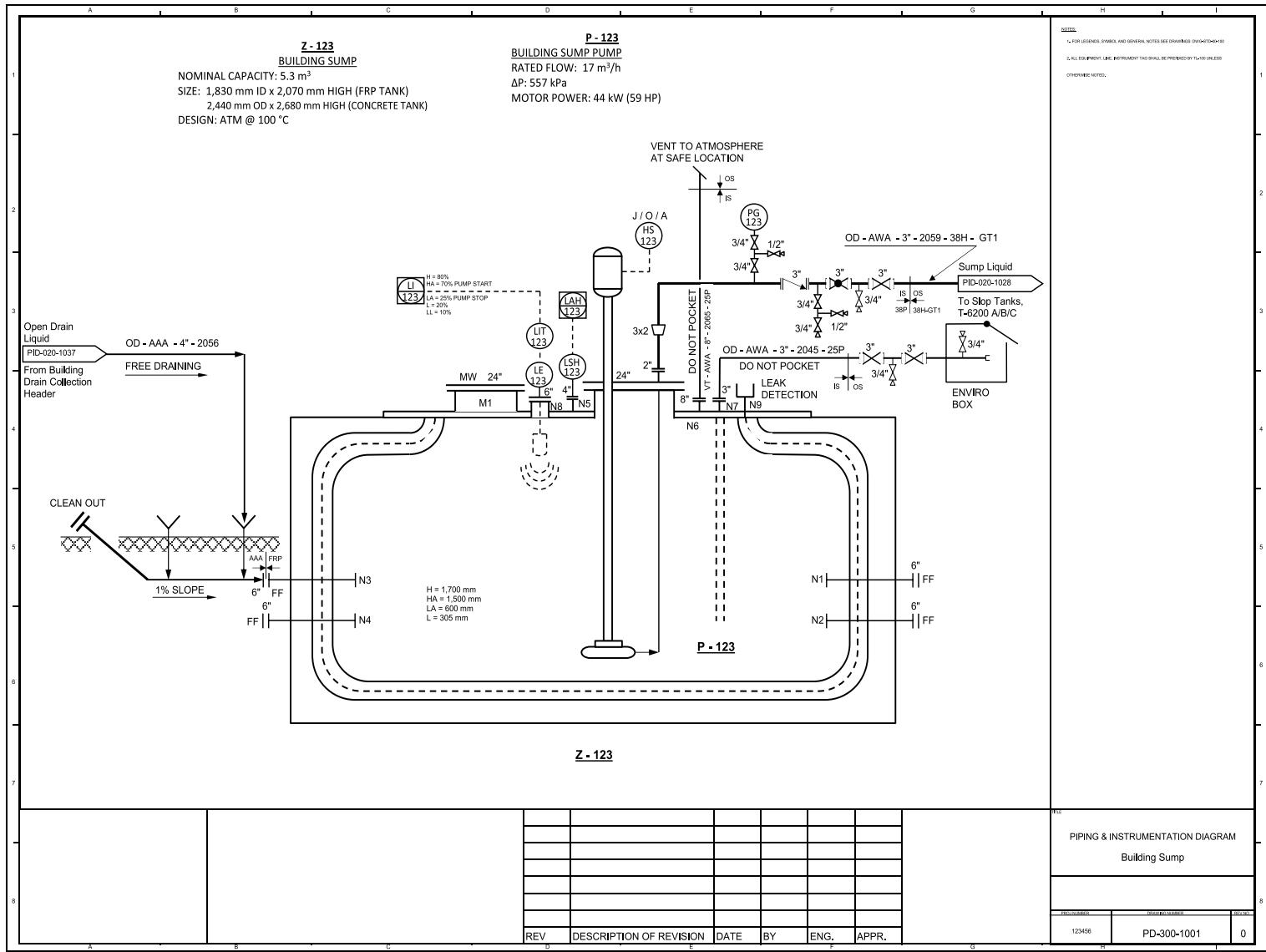
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Diffuser System



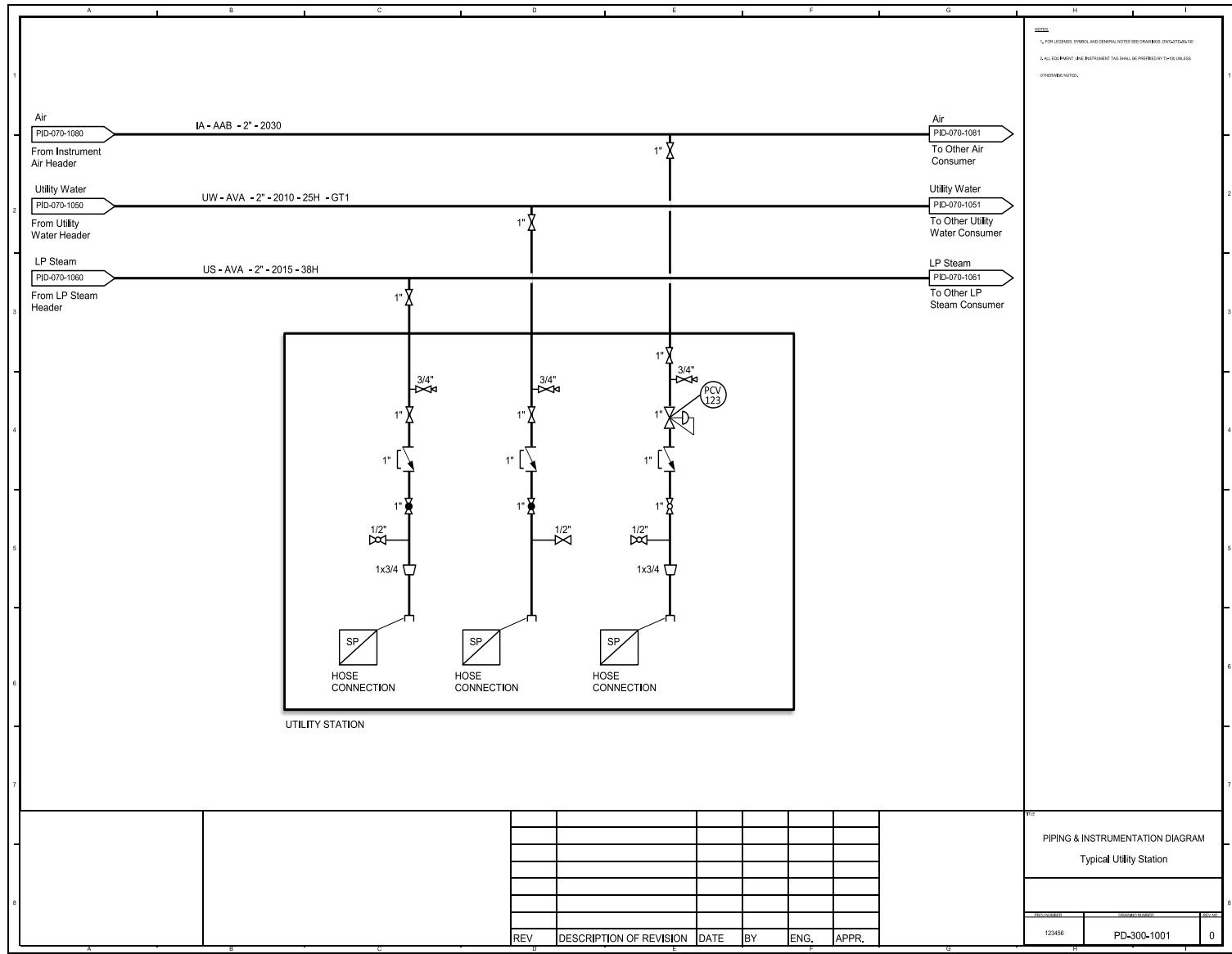
P and ID Development

Building Sump



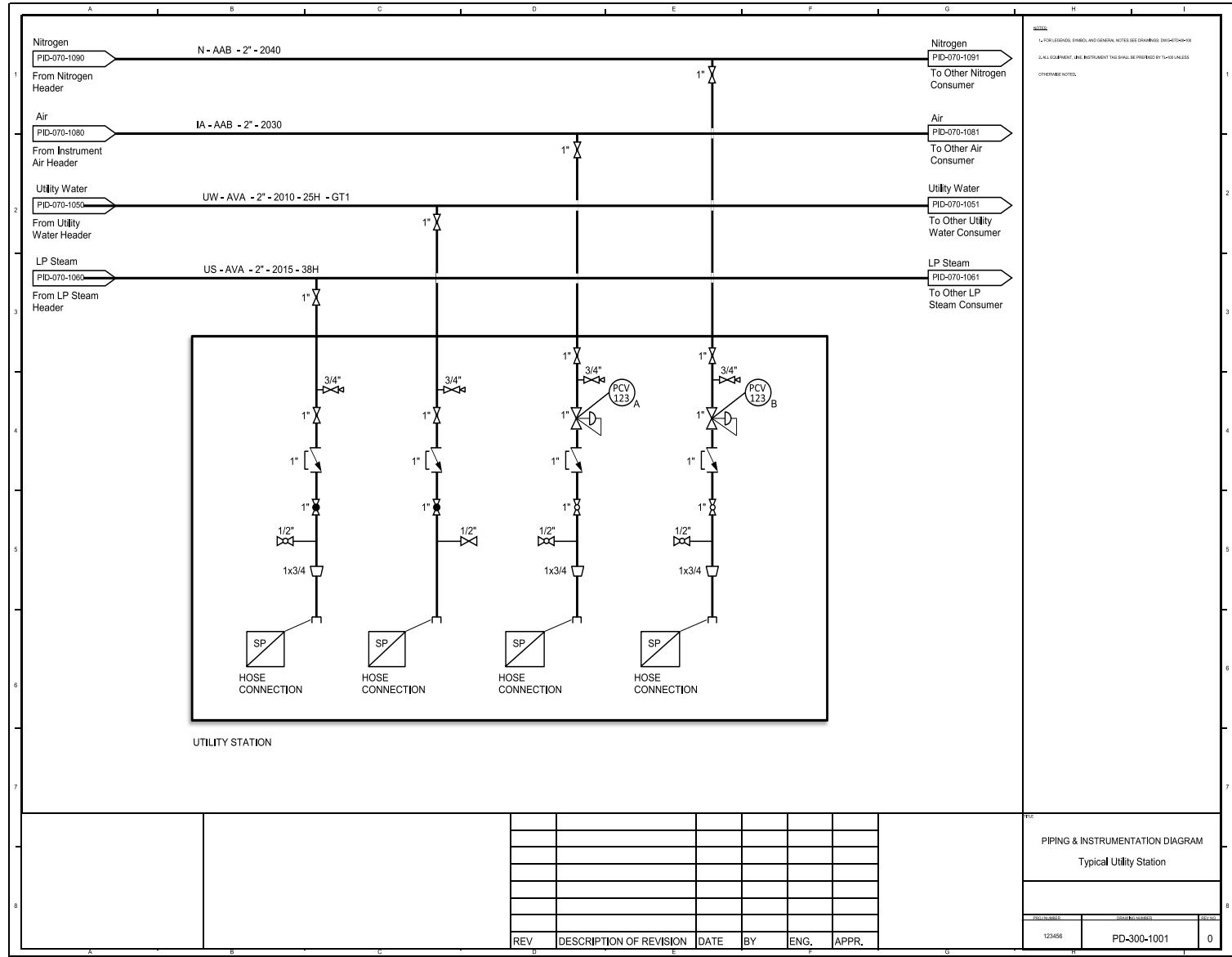
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Typical Utility Station



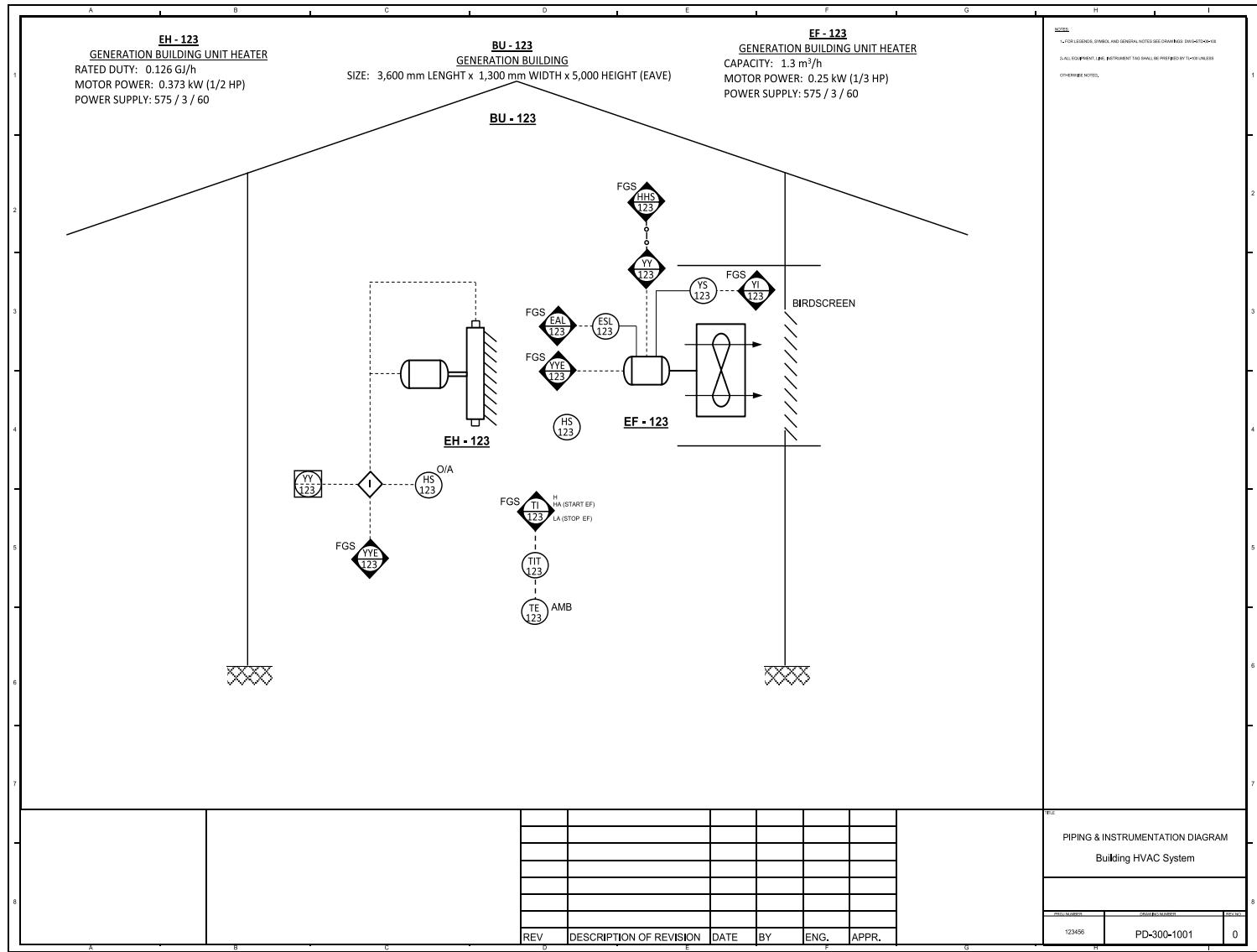
P and ID Development

Typical Utility Station



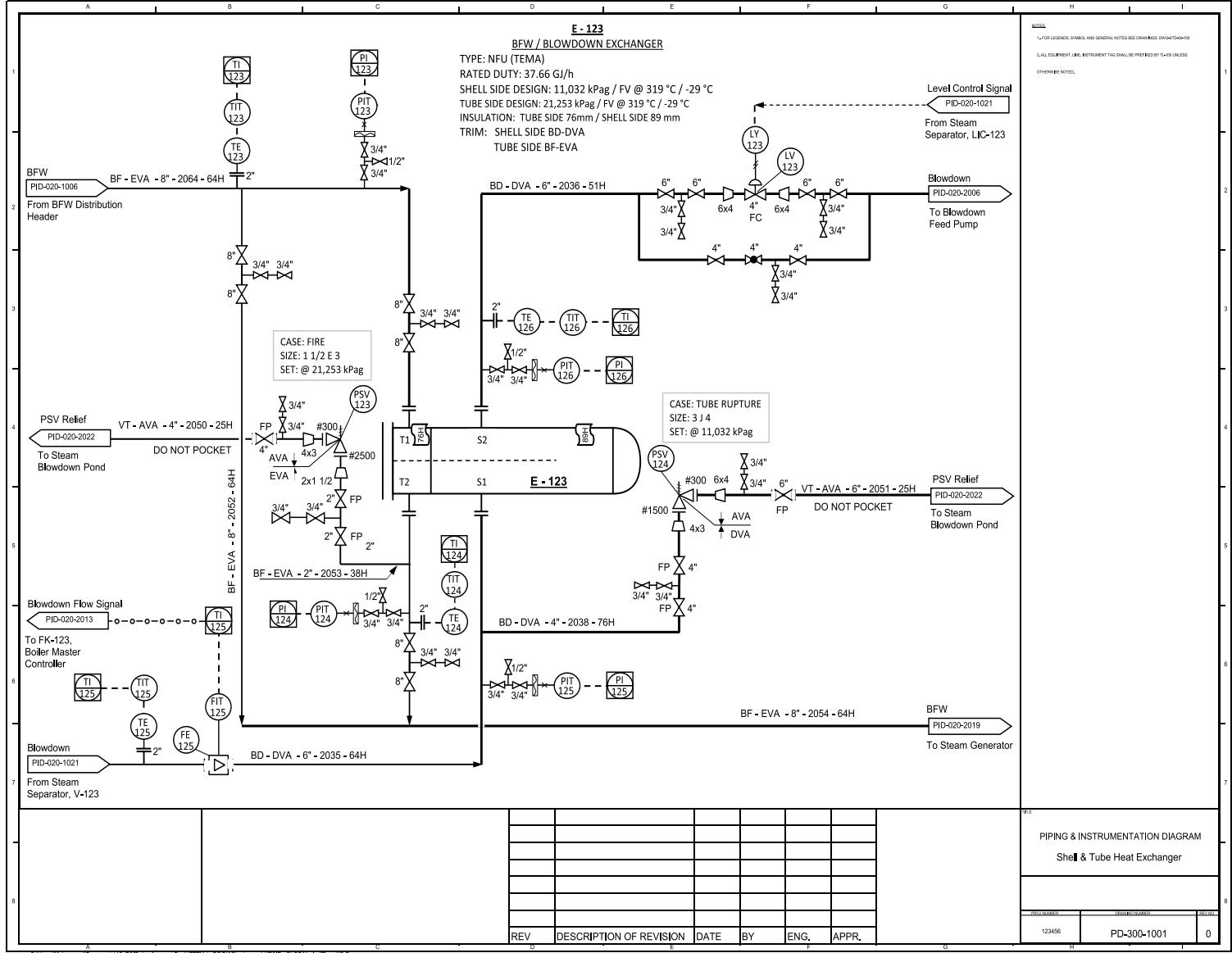
P and ID Development

Building HVAC System



P and ID Development

Shell & Tube Heat Exchanger



NOTES:
1. FOR LEGENDS, SYMBOLS AND GENERAL NOTES SEE DRAWING DWG-000-100
2. ALL EQUIPMENT LINE INSTRUMENT TAG SHALL BE PREPARED BY TS-100 UNLESS OTHERWISE NOTED.

PIPING & INSTRUMENTATION DIAGRAM
Shell & Tube Heat Exchanger

REV	DESCRIPTION OF REVISION	DATE	BY	ENG.	APPR.
0					

CHART NUMBER: 123456 DOCUMENT NUMBER: PD-300-1001 DATE: 00/00/00

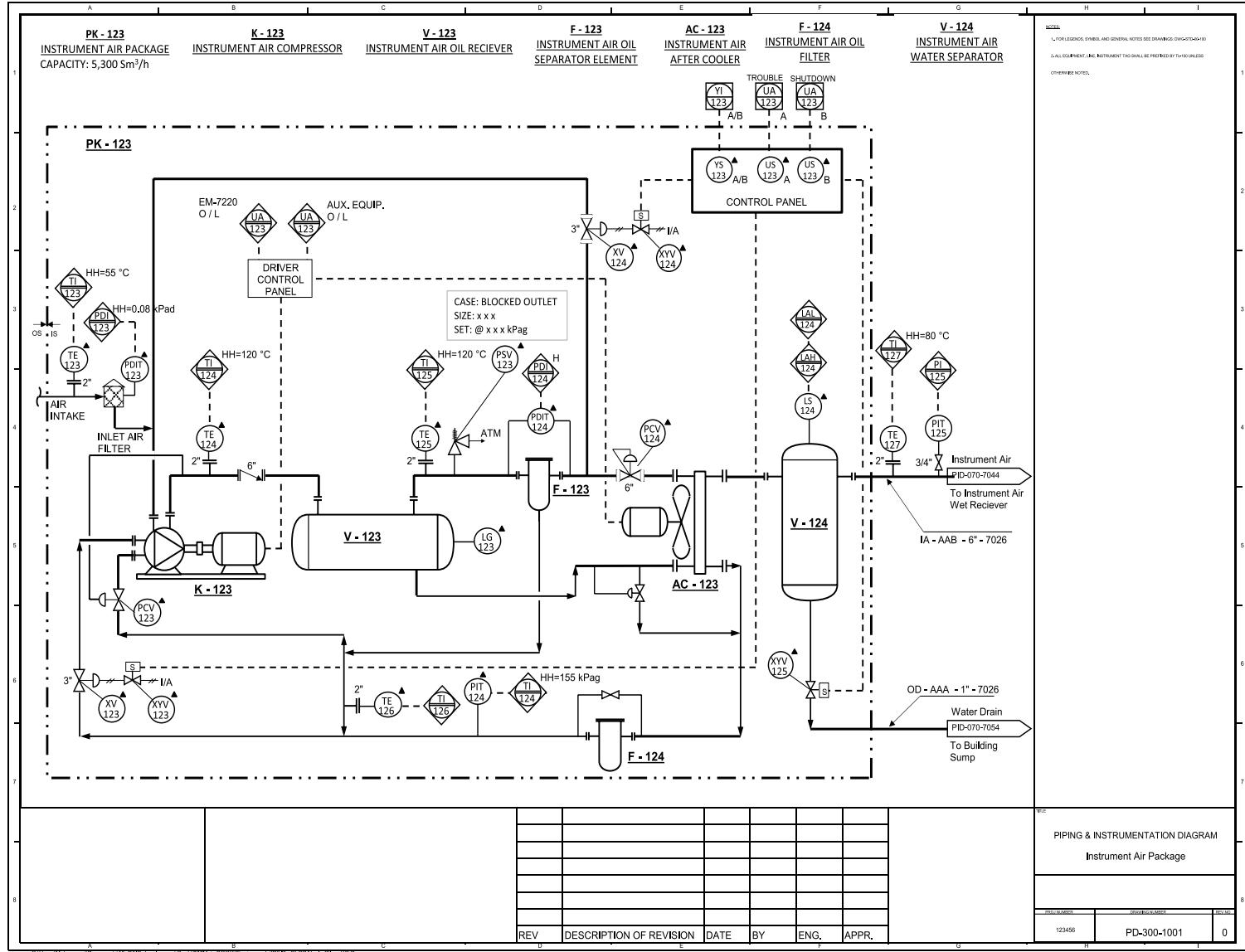
P and ID Development

Fire, Gas and ESD Controls

Location	Gas Detection	Fire / Smoke Detection	Gas Detection	ESD Push Bottom	Beacons & Horns																																											
Bldg. 1	<p>BYPASS FGS AA 123, FGS BA 123, FGS BH 123 A-D, A-D, A-D</p> <p>FGS AI 123, HH=40% LEL, V=20% LEL A-D, A-D</p> <p>FIRE FGS BI 123, HH=95% A-D, A-D</p>	<p>BYPASS FGS AA 123, FGS BA 123, FGS BH 123 A-D, A-D, A-D</p> <p>FGS BI 123, HH=15 ppm, H=10 ppm B-D, B-D, B-D</p>	<p>FGS AA 123, FGS BA 123, FGS BH 123 B-D, B-D, B-D</p> <p>FGS BI 123, HH=10 ppm A-L, A-L, A-L</p>	<p>ESD 123, B-L</p>	<p>GAS / FIRE ALARM FGS AH 123, TEST, AV 123, RED BEACON 123, ALH 123, OIS D</p> <p>H2S ALARM FGS AH 123, TEST, AV 123, BLUE BEACON 123, ALH 124, OIS E</p> <p>FIRE / GAS / H2S FGS AH 123, SILENCE, FGS AH 123, TEST, AV 123, INDOOR HORN 123, AAH 123, C</p>	<small>NOTES: 1. FOR LEGEND, SYMBOLS AND GENERAL NOTES SEE DRAWINGS DW-GA704-010 2. ALL ESD INSTRUMENTS, INSTRUMENT TWO SHALL BE PROVIDED BY THE OWNER UNLESS OTHERWISE NOTED.</small>																																										
Bldg. 2	<p>BYPASS FGS AA 125, FGS BA 125, FGS BH 125 A-D, A-D, A-D</p> <p>FGS AI 125, HH=40% LEL, V=20% LEL A-D, A-D</p> <p>FIRE FGS BI 125, HH=95% A-D, A-D</p>				<p>GAS / FIRE ALARM FGS AH 125, TEST, AV 125, RED BEACON 125, ALH 126, OIS D</p> <p>FIRE / GAS FGS AH 125, SILENCE, FGS AH 125, TEST, AV 125, INDOOR HORN 125, AAH 125, C</p>																																											
						PIPING & INSTRUMENTATION DIAGRAM Fire, Gas and ESD Controls																																										
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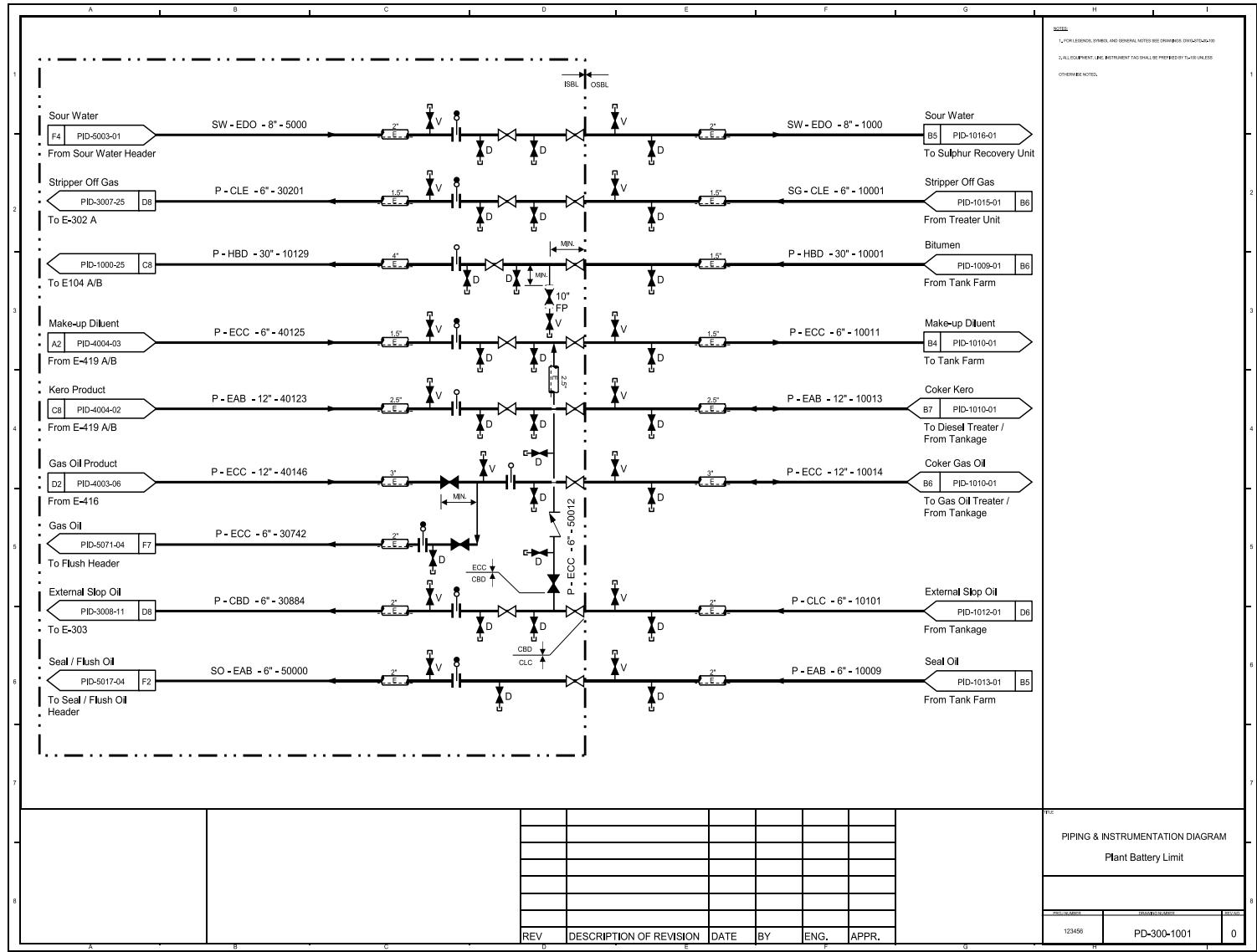
P and ID Development

Instrument Air Package



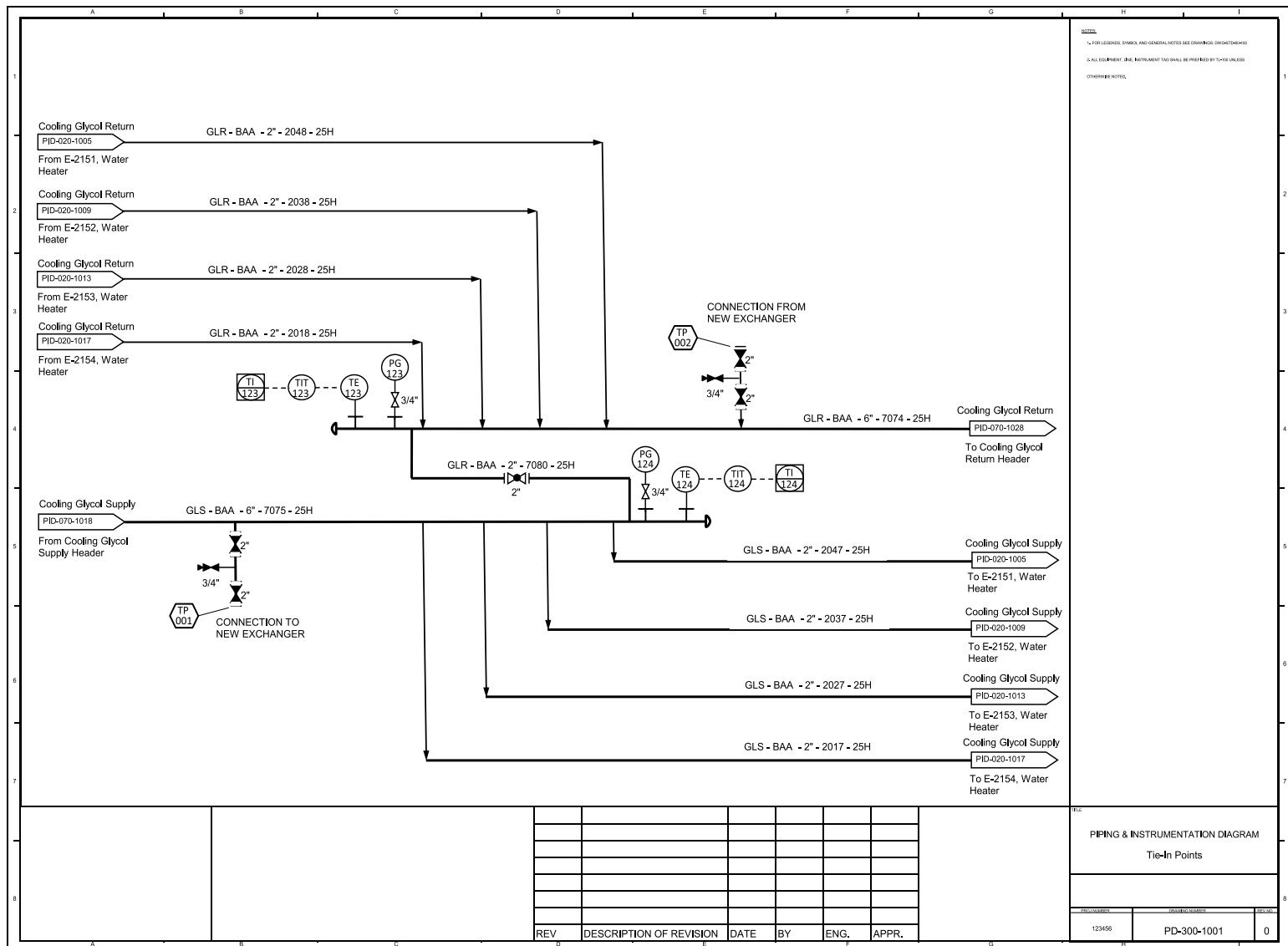
P and ID Development

Plant Battery Limit



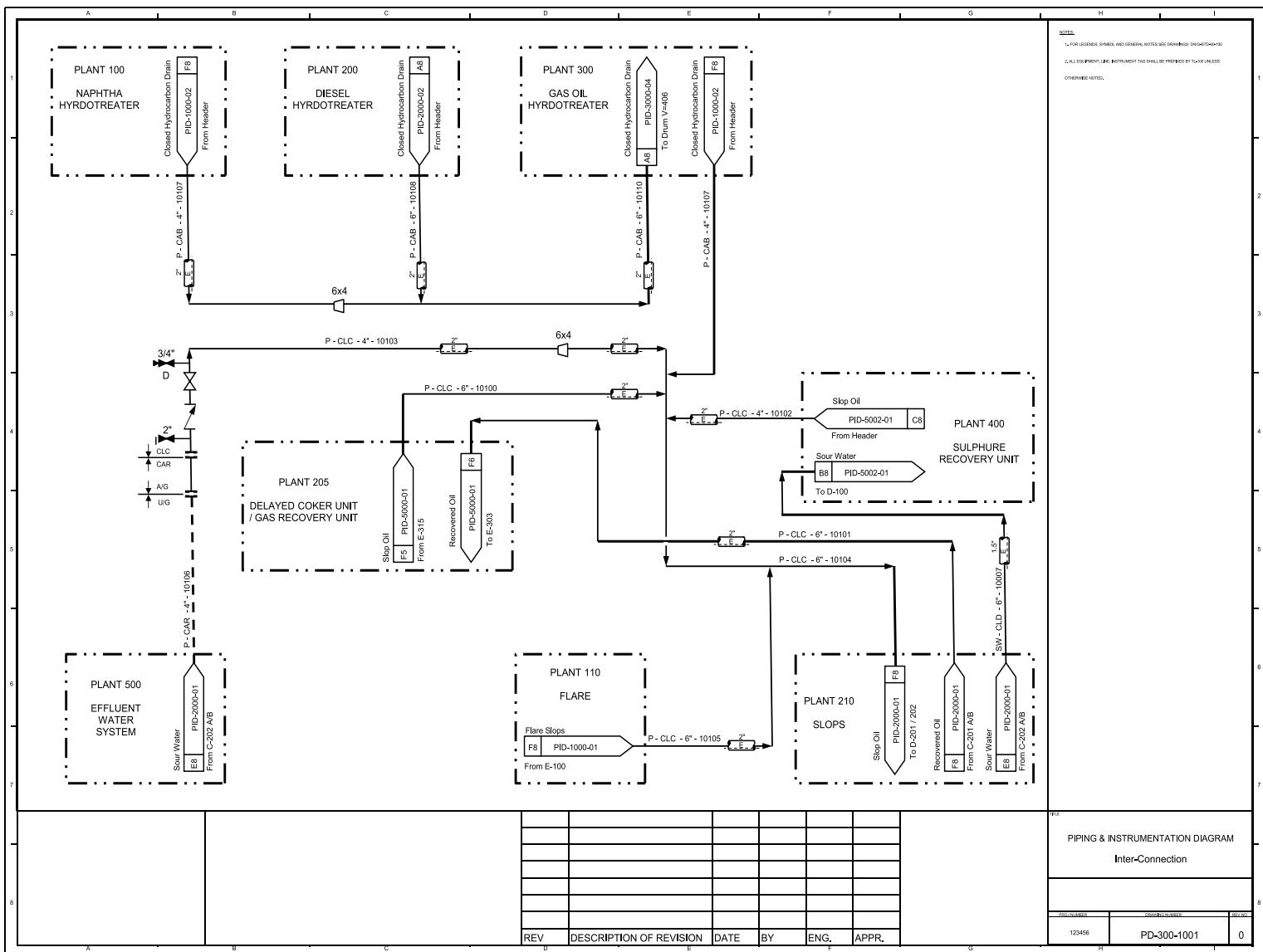
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Tie - In Points



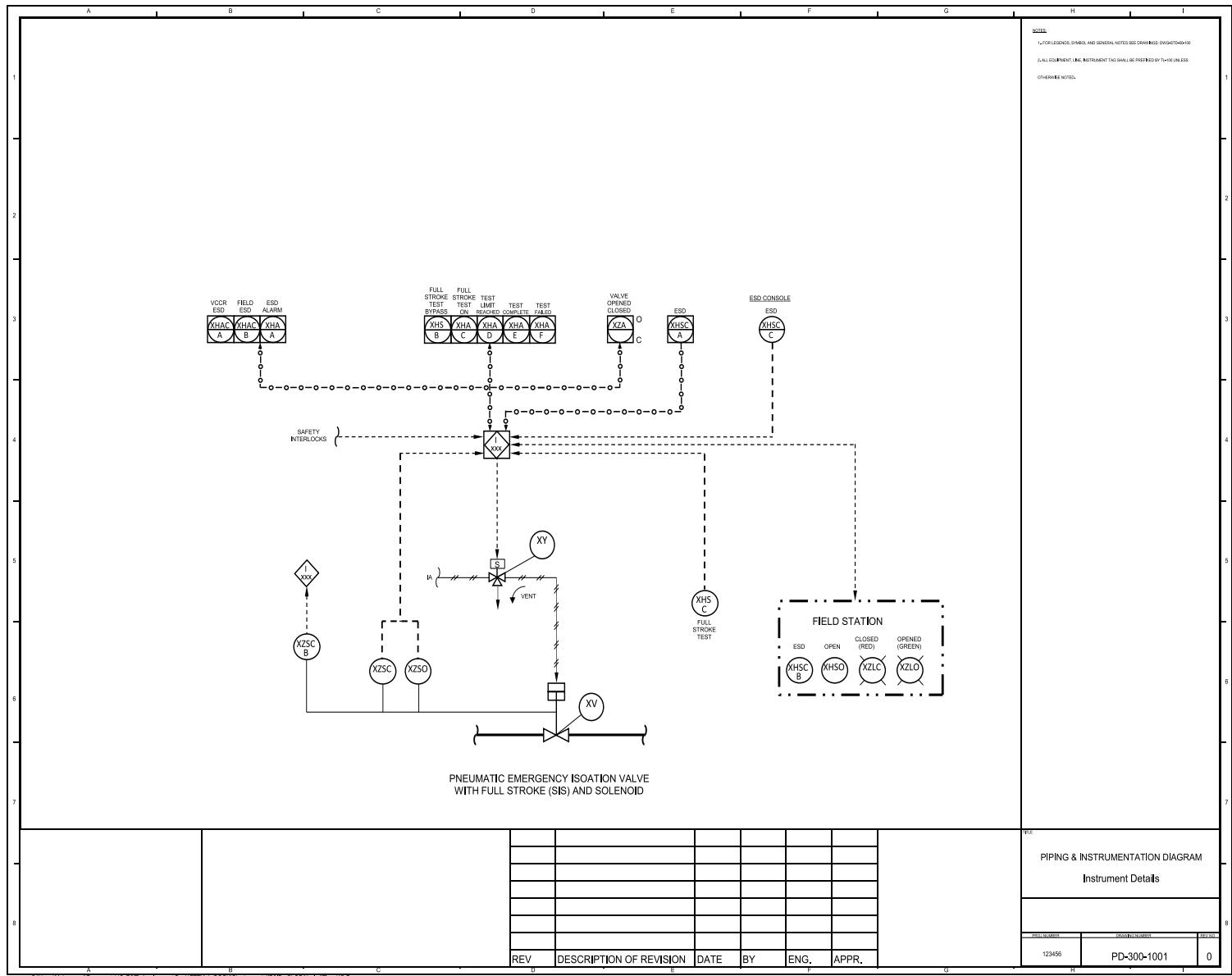
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Inter - Connection



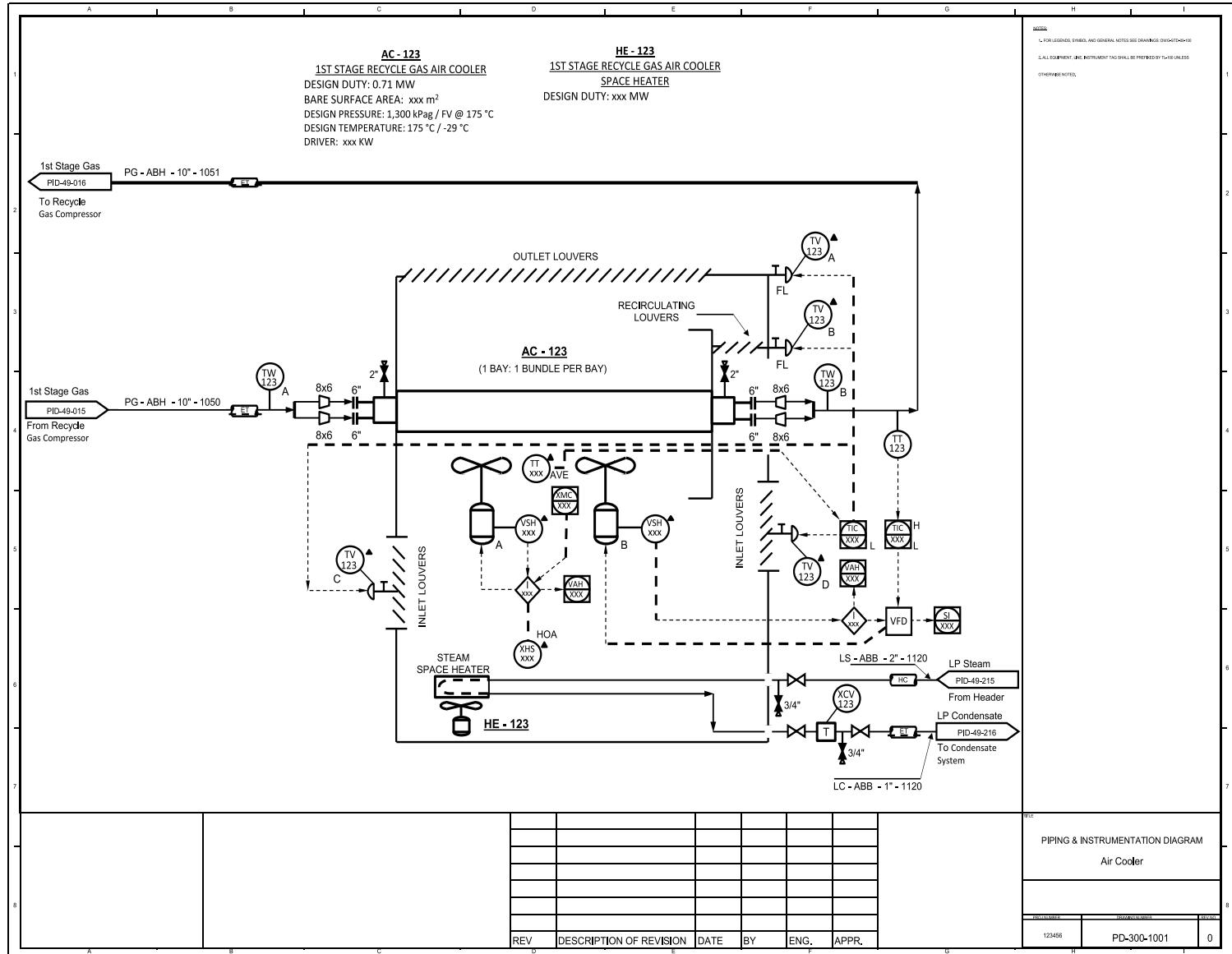
P and ID Development

Instrument Details



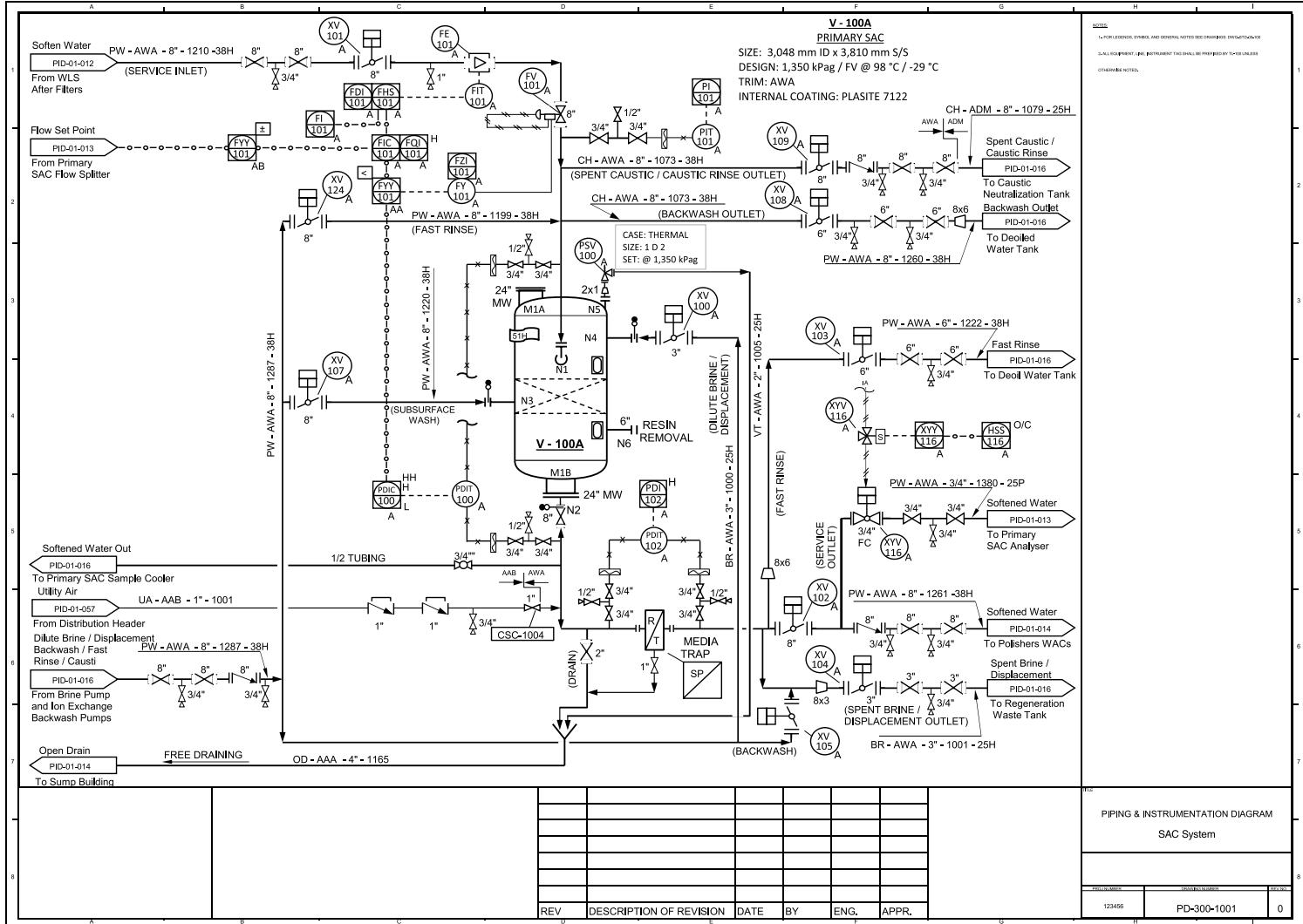
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Air Cooler



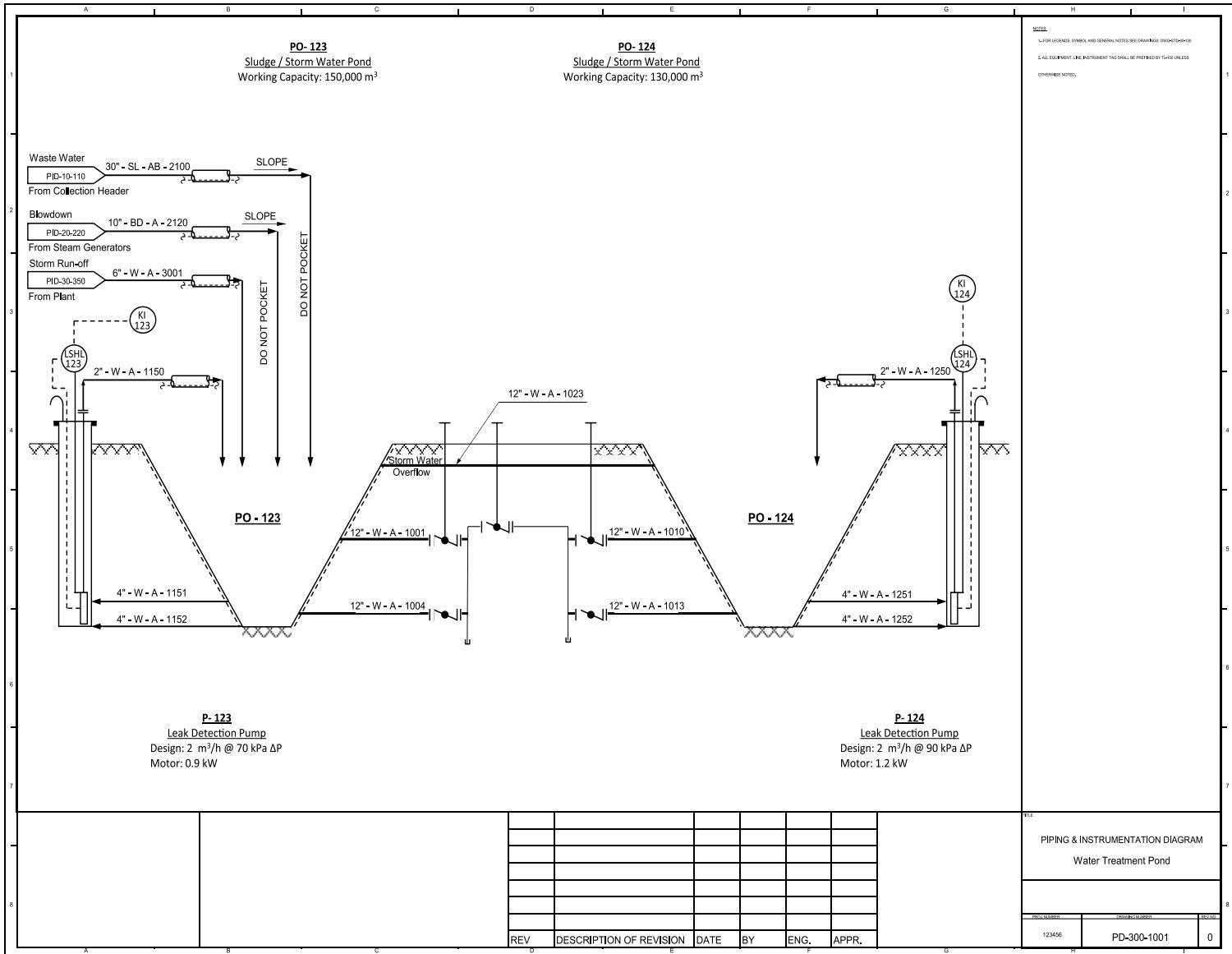
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SAC System



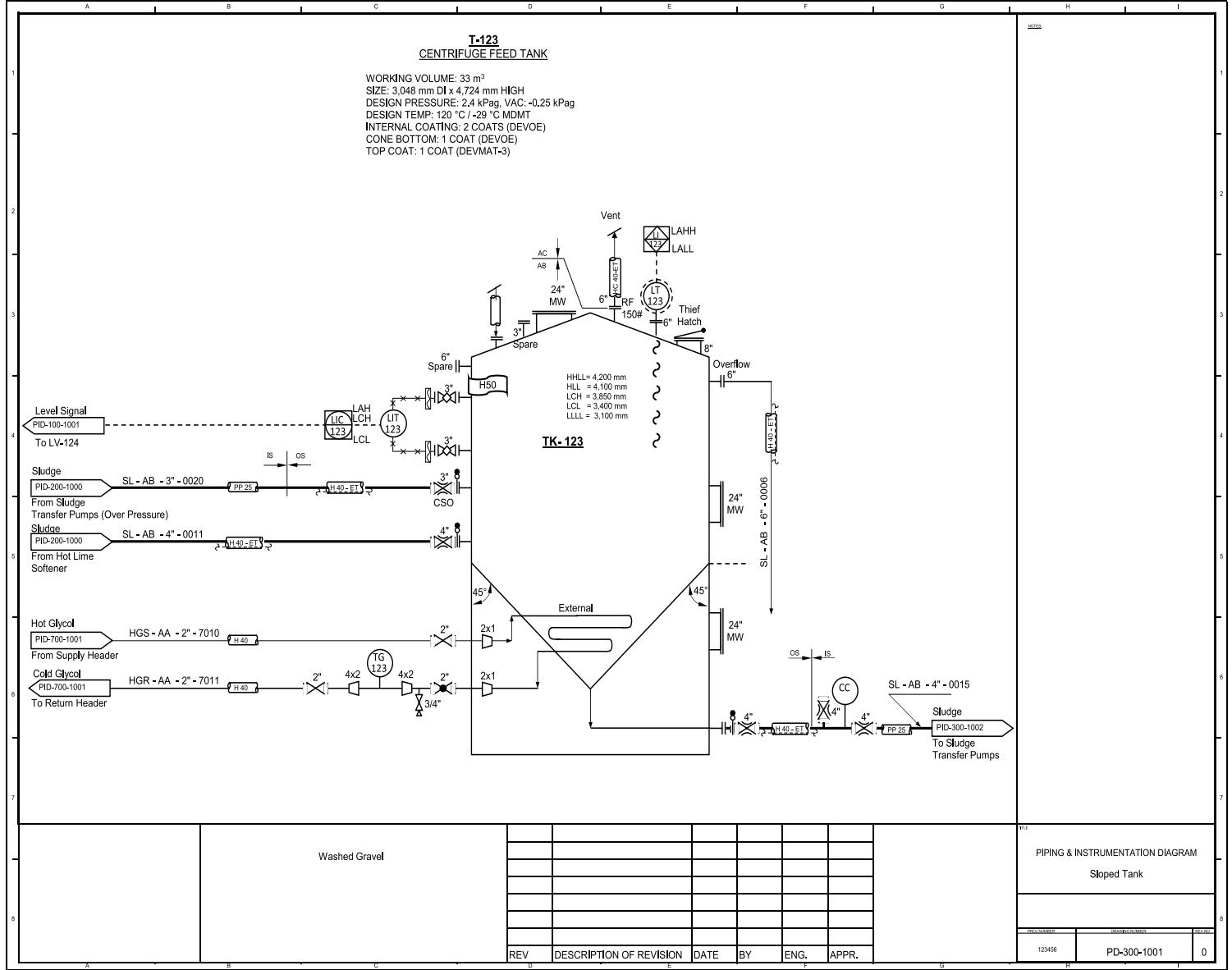
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Ponds

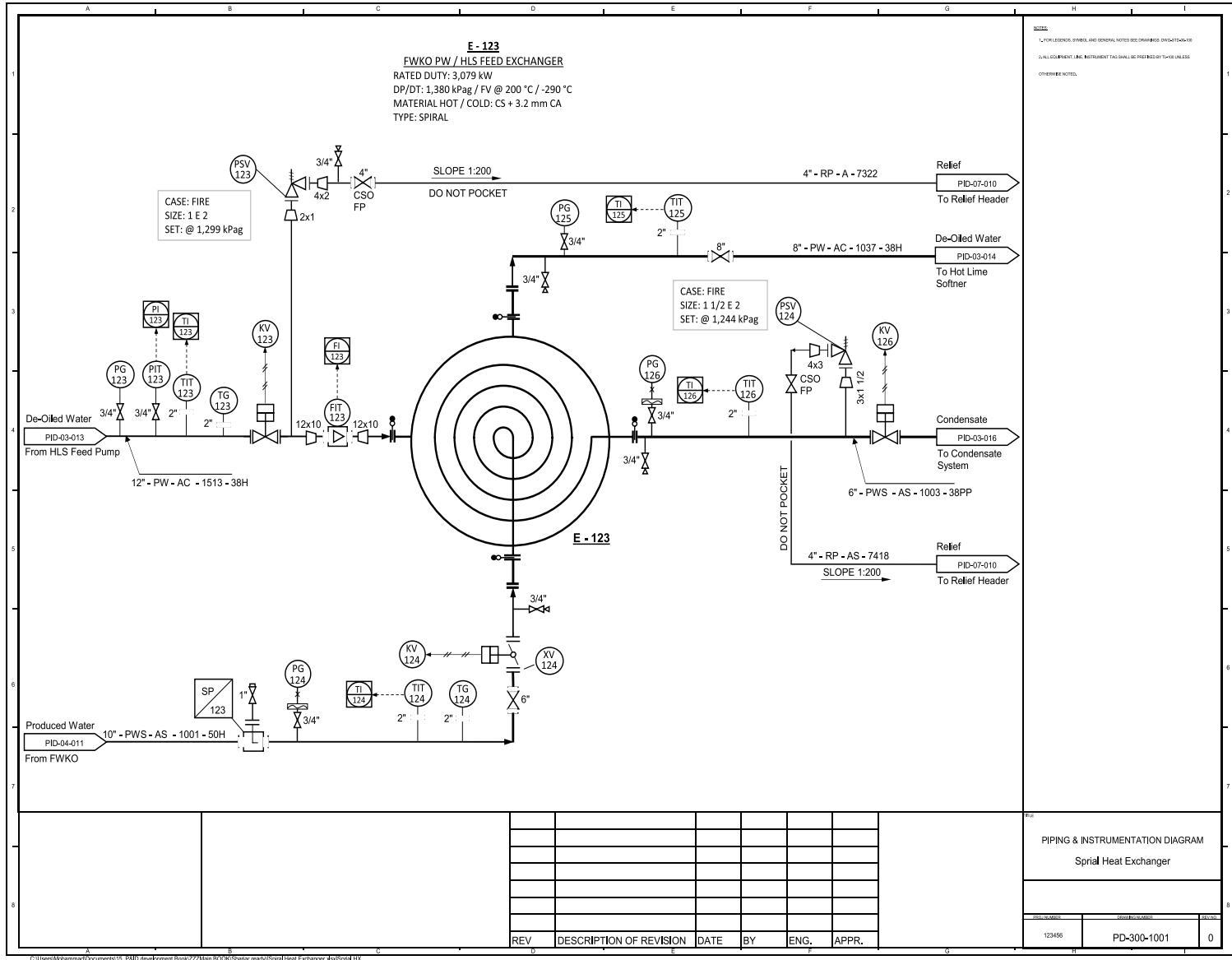


P and ID Development

Sloped Tank

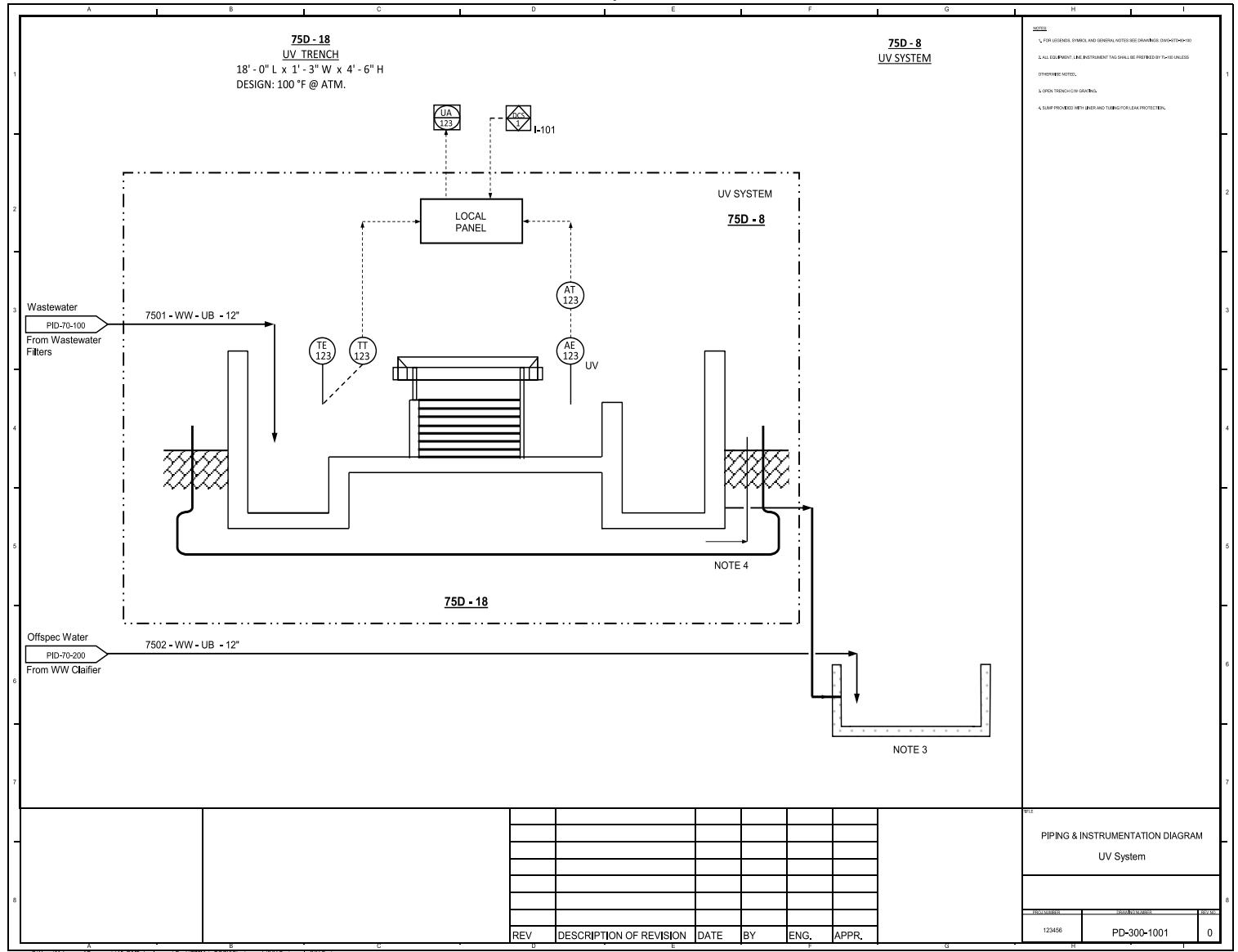


Spiral Heat Exchanger



P AND ID Development

UV System



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